

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

OCTOBER 15, 1953



*Abies Koreana*

**SEEDS** TREE—SHRUB—PERENNIAL  
FLOWER—GRASS—VEGETABLE

Correspondence with seed collectors and growers invited.

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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Forms for the November 1 issue will close Friday, October 16.

Forms for the November 15 issue will close Friday, October 30.

Mail copy to arrive at Chicago by these dates—no later!

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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

KENNETH A. BRENT  
*Managing Editor*

## Editorial

### MACHINES IN THE NURSERY

Only a decade ago most of the machines used in their fields—aside from tractors, many of which, indeed, were altered for nursery operation—were designed and made at home by nurserymen. Diggers were their primary achievement at that time. Then the wartime shortage of manpower, plus the ingenuity of mechanical development in other industries, intensified the efforts of nurserymen in their search for laborsaving contrivances.

When, during wartime, this magazine published articles descriptive of planting machines, the latter were largely found in government forest nurseries or in celery fields. Now they are used in many nurseries. Planting of government housing projects in wartime brought into use in this field the hole diggers used by telephone companies, though they were cumbersome and expensive. Now devices easily and inexpensively employed in nursery and landscape operations are manufactured especially for this industry. Today, indeed, the number and variety of machines for nursery use advertised in the issues of this magazine would amaze the prewar nurseryman if he had had a vision of them at that time.

The mechanized trend in this field only parallels that in other industries, especially where casual or seasonal labor was formerly employed. It is a marvel to see a few men with a tractor and a couple of other portable machines lay rails today, in contrast with the big gangs required to repair railroad tracks in former years.

Application of machinery to their operations is not nowadays confined to the large nurseries. The convenience and laborsaving involved have made such equipment valuable, if not necessary, in smaller fields.

Need has answered the old obstructive comment that mechanics would be needed, instead of laborers, for the successful operation of the new device. Lawn maintenance men used to frown on power mowers, asserting if they did not operate the machines themselves, they had to spend excessive time in adjustments

or repairs caused by the negligence of hired hands. But in time it was found that, by picking the right man, laborers could run the power mowers so that the maintenance men could keep up with the many jobs offered them by homeowners. Now the power leaf grinders are found quickly to pay for themselves by the saving in time of raking and hauling away or burning the leaves on clients' lawns.

Today the wise nurseryman does not wait to be pushed into the use of the machinery useful to him, but investigates the equipment offered and suggests modifications to meet his needs. Only thus is the industry to meet its labor needs in a time of heavy demand for its products in the face of country-wide full employment.

### MORE CUSTOMERS

With home building continuing at a high level and the demand for nursery stock showing no abatement, the discussion of a possible business recession in the daily newspapers engages nurserymen's attention lightly. A recession has affected one or another industry since the war when overproduction followed the satisfaction of consumer demand, usually overestimated because of the wartime shortages. Such adjustments have affected little or not at all other industries still occupied in meeting the public's needs.

In the case of this industry, the planting of new homes has been accomplished by a larger interest in home planting and gardening on the part of the public, because of greater leisure provided by the 5-day week and because of the high level of consumer income maintained by full employment. More customers have been developed by, or at any rate for, nurserymen not only by the increase in the number of homeowners, but also by the higher standard of living sought by the American public.

When the need for new homes will be satisfied, no one can tell at this point. But when it does decline, the nurserymen will still have more customers than they ever had before if interest in gardening is maintained. There is a certainty in that, demonstrated by horticulture in the European countries settled centuries before this continent. Further insurance of it can be gained by good public relations and continued effective selling by the trade itself.

## AMERICAN NURSERYMAN

### The Mirror of the Trade

#### WOODLOTS IMPORTANT

In the production of stock to meet the current heavy demand for landscape material, growers may overlook the increasing importance of woodlots as a market. These are being developed more earnestly than in the past, as they are recognized as providing more wood for lumber, paper and other products.

Farm and other woodlots already produce one billion dollars' worth of such products annually, or about one tenth of all forest products in the United States. It is asserted that, properly managed, they could produce three times as much.

Commercially valuable small woodlots, owned by about 4,000,000 persons, total 261,000,000 acres, or more than half of the 459,541,000 acres of productive forest land in the country.

Lumber and paper mills, business groups and government agencies are interested in aiding small woodlot owners in better management. Such development is especially important in the eastern half of the country, where ready markets help such landowners.

Seedling trees for woodlot planting are obtained from government nurseries in some states, but the commercial nurseries specializing in their production are not numerous and market their output easily. As woodlots increase in the attention given them by their owners, as well as in industrial importance, more nurserymen may find them a worth-while market.

#### POSTAL EXPERIMENT

Beginning early in October, letters bearing 3-cent stamps and dispatched between New York and Chicago and between Washington, D. C., and Chicago are traveling by air. Postmaster General Arthur E. Summerfield made the announcement recently, after the civil aeronautics board had issued an order authorizing United Air Lines; American Air Lines, Inc.; Trans World Airlines, Inc., and Capital Airlines, Inc., to initiate the service on an experimental basis.

Whether the service will eventually be widened to include other or all major cities will depend upon the results of this experiment, with costs and savings in time the most important factors involved.

# Thousands Pay Tribute to The Rose at Texas Festival

By Joan Kilner Mills

For four days each October the Texas rose festival transforms the east Texas town of Tyler into the mecca of rose lovers. From 150,000 to 200,000 visitors throng this town of normally some 40,000 inhabitants to pay tribute to the rose. It is the production of 20,000,000 field-grown rosebushes by approximately 200 commercial growers in the area for shipment each year throughout the United States and to several foreign countries that has made Tyler the rose capital of the world.

This year the 16th annual Texas rose festival was held October 1 to 4. Though the weather was hot and dry that week, ample rains during the summer broke the long spell of drought in east Texas to make possible the most abundant and colorful display of rose blooms since the festival was resumed at the end of World War II.

The festival program began the night of October 1 with a brilliant 1½-hour pageant climaxed by the coronation of the 1953 rose queen, Miss Sally Kay, of Tyler. The show was repeated the following night and played to capacity audiences both times in the 2,000-seat high school auditorium.

## Coronation of Queen

Stage setting for the coronation, entitled "Festival of Fantasy," was a fairyland of trees flecked with sequins, rhinestones and gold, framing a throne flanked by candelabra. Into this scene came, one by one, eight lovely, young Tyler girls, ladies in waiting to the queen, gowned in shimmering satin of different colors, trimmed in white ostrich plumes and glittering sequins. They represented the maids of fortune, romance,

dreams, delight, charm, gaiety, music and merriment. Each in turn introduced four duchesses, pretty college girls from other Texas towns, four other states and Mexico. Gorgeously gowned, they represented fairy treasures for the queen such as lilting melodies, jubilant fiesta, splendor of the butterfly and rapture of dawn. When all were assembled on the stage, the president of the Rose Festival Association, Wilton Daniel, entered to crown Miss Kay queen of the 1953 Texas rose festival. She was attired in a magnificent ball gown of filmy white and silver lace with a rose motif in silver threads and rhinestones. Her long, white velvet train was edged in white ostrich plumes, and centered on the train was the crest of the Order of the Rose, done in rhinestones and red, green, silver and gold sequins. Pink rose petals showered down on the final tableau. The Alexandra Danilova-Edith James concert ballet group and tenor Carl Ravazza provided royal entertainment for the queen and her court.

## New Building for Rose Show

Completion of a \$45,000 air-conditioned Garden Center building and nighttime illumination of the adjoining 6,000-bush municipal rose garden afforded visitors not only one of the most beautiful rose displays in festival history, but also one of the most convenient to tour. Friday morning, October 2, Gov. Allan



Sally Kay, Rose Festival Queen.

Shivers of Texas cut the ribbon and spoke briefly at the opening of the rose show in dedication of the building.

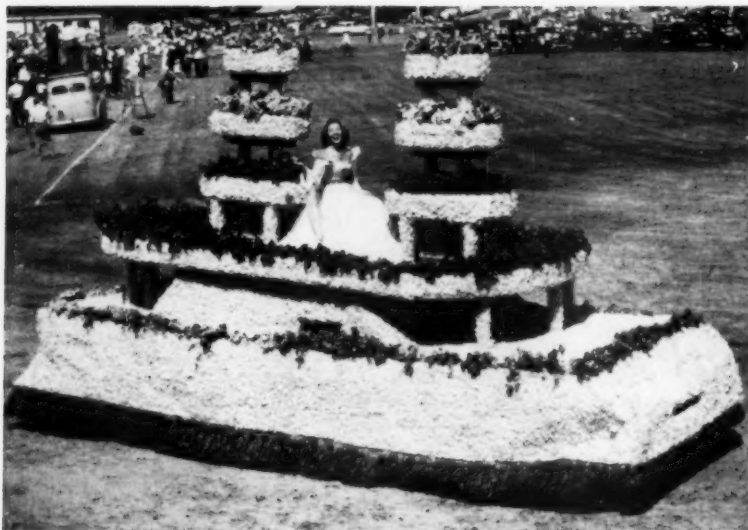
The building is divided into two large rooms, divided by a center lobby. One room has large windows overlooking the rose garden below, and the other is a greenhouse. The stone-floored lobby was completely edged in floribunda roses in cans set in sunken redwood boxes. Entering the display room, one immediately faced the major display, "Fantasy of Roses." Over 100,000 blooms in myriad shades of red, yellow and pink were massed into a waving carpet of roses rolling down to a pool in a rocky setting. A fountain in the center of the pool sprayed glistening waterdrops onto rose blooms floating in the pool. A hedge of wax myrtle formed the background.

Along the opposite wall were 18 niches where local garden clubs showed rose arrangements on the theme "The Golden Touch of Midas," taken from the coronation pageant, in competition for the tri-color award and a silver bowl. A huge arrangement in the center featured the queen's rose, Taffeta.

At the far end of the room were table settings featuring roses. These took another theme, "Spirit of the Theater," from the coronation.

Along the length of the room, behind the massed display, were the variety exhibits, arranged under the direction of Delbert Thompson,





Tyler Rose Growers' Float, Ridden by Jeane House.

Rosemont Nurseries. Over 250 dozen blooms in 150 varieties were exhibited on two tiers of redwood tables, each 56 feet long, against a backdrop of native myrtle. Several blooms of each variety were shown in a vase, instead of just individual specimens, for better appraisal of the variety in all stages from bud to full bloom.

Old-fashioned standard varieties, such as the hybrid teas, *Devoniensis*, Mrs. B. R. Cant, Maman Cochet and Freiherr von Marschall, rarely seen in shows today, formed a special exhibit. Completing the variety display were large bouquets of All-America Rose Selections' winners, with this year's winners, Mojave and Lilibet, featured in the foreground.

The greenhouse room of the building was divided into gardens and educational exhibits. St. Augustine grass carpeted the gardens. One featured a central fountain in a formal garden; another, a patio edged in roses in sunken cans, and a third, an informal planting of roses, trees and shrubs.

A bamboo hedge separated the gardens from the educational exhibits, prepared by Dr. E. W. Lyle, pathologist of the Texas Rose Research Foundation. One exhibit showed how rosebushes are budded and grown in the field. Another explained grading of the bushes. The final exhibit showed the amateur rose grower how to plan, cut back, fertilize and otherwise care for rosebushes in the garden.

Mr. and Mrs. E. C. Overton recorded the show and other festival events with their color cameras to complete a movie that they began

over a year ago of the Tyler rose industry.

Buses left from the rose show several times daily on tours to the rose fields.

#### Distinguished Guests' Luncheons

Friday noon there were separate distinguished guests' luncheons for ladies and gentlemen. The men gathered in American Legion Hall to hear a brief talk by Gov. Allan Shivers on the attributes of the Constitution and the Bill of Rights. Guest rosarians and industrialists were presented. Among them were Herbert C. Swim, Armstrong Nurseries, Ontario, Calif., hybridizer of A. A. R. S. winner, Mojave; Robert Lindquist, Howard Rose Co., Hemet, Calif., developer of Lilibet, this year's other A. A. R. S. winner; Sidney B. Hutton, Sr., Conard-Pyle Co., West Grove, Pa., A. A. R. S. president; Douglas McKay, United States Secretary of the Interior; John White, state commissioner of agriculture; Clark Kidd, Arp Nursery Co., Tyler, president of the Texas Rose Growers Association. Clarence Perkins, Jackson & Perkins Co., Pleasanton, Calif., George White, Bobbink & Atkins, East Rutherford, N. J., and Otto Lang, Lang Floral & Nursery Co., Dallas, were also guests. L. A. Dean, executive vice-president of the festival, was in charge of the luncheon.

Following luncheon in the Women's Forum building, the ladies heard an informal talk by Harry Wheatcroft, colorful British rosarian from Nottingham, England. In the past 20 years American hybridists have created the gems of the rose world; formerly these were produced by hy-

bridists on the Continent, said Mr. Wheatcroft.

In order to economize, he said, British gardeners are using more floribunda or polyantha roses, instead of annual planting of summer bedding plants. He spoke of the remarkable mass plantings of roses he had seen in Germany. As many as 80,000 to 100,000 rosebushes, with several thousand of a single variety, were used to give a terrific display of color over a long period. America has not yet begun to plant roses in as serious a manner, said Mr. Wheatcroft. His impression of American gardens was delightful shrubs and excellent lawns, but a lack of color.

A color movie of All-America Roses was shown. It included scenes of the A. A. R. S. test garden in the L. A. Dean estate and rose plantings in Tyler's parks, municipal gardens and buildings.

Mrs. Clarence Perkins and Mrs. George White were among the guests introduced at the luncheon.

From 3 to 5 o'clock that afternoon the queen, her parents and grandparents, Mr. and Mrs. Luther Kay, Jr. and Sr., received in the garden of the junior Kays' home.

At 10 p. m. Friday the members of the Order of the Rose and their guests attended the gala social event of the festival, the queen's ball. The queen and her 42 ladies in waiting and duchesses were presented with their escorts prior to a floor show and dancing to the music of Freddie Martin's orchestra.

Setting for the ball was an English Regency tea garden pavilion. Open at the front, it was delicately roofed with strands of white cable, English voile swags and tassels. The caves were of cutout metal trim. Hand-turned wooden posts supported the roofs. The queen and her court entered through a wide door at the rear that was flanked by metal screens. Jet-black blackamoors escorted each couple down the stairs. Espaliered magnolia trees against a white, hand-wrought iron fence banked with roses were at either side of the pavilion.

A large magnolia tree, sprayed white, stood against one wall, each leaf aglow with a tiny candle. White tree roses and hybrid tea roses, magnolia leaves and wild myrtle were used to decorate the rest of the ballroom, whose walls were hung with pale blue vitronet.

Mrs. L. A. Dean was on the committee that arranged for the queen's table, and L. A. Dean was on the committee for hall and table arrangements.

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# Study Describes Symptoms, Control Of Rose Streak

By Philip Brierley

Pathologist, Bureau of Plant Industry,  
Soils and Agricultural Engineering,  
U. S. Department of Agriculture, Beltsville, Md.

We first noted the virus disease, rose streak, during the 1930's in the rose species and varieties assembled at Glenn Dale, Md., and Arlington (Va.) experimental farm, by Walter Van Fleet and other rose breeders of the United States Department of Agriculture. Later we saw one plant affected with streak at the New York Botanical Garden and a few other affected plants in a garden in the District of Columbia. E. W. Lyle showed us a few streak plants in a

nursery in Texas. After our report on rose streak in 1940<sup>1</sup>, no further examples of this disease came to our notice until 1952. Thus, we had come to believe the disease was declining and was not a menace to the rose industry.

In 1952 we saw rose streak in nurseries near Painesville, O., and

<sup>1</sup>Brierley, Philip, and Floyd F. Smith. Mosaic and streak diseases of rose. *Journal of Agricultural Research* 61:625-660. 1940.

D. L. Gill sent us streak plants of the floribunda variety Else Poulsen from a nursery in Georgia. Because rose streak is causing some commercial loss in both these states, and nurserymen there seem unaware of the nature of the disease, a review of what is known about it seems desirable.

## Symptoms of Rose Streak

Some 60 varieties of rose were found affected with streak in our earlier studies.<sup>1</sup> The varieties vary widely in reaction to the streak virus: (a) Some are generally (systemically) invaded, the streak virus spreading to all parts of the plant except the seed; (b) some others develop only local lesions, the virus being limited to dark canker-like areas (lesions) near the point of entry, and (c) still other rose varieties are highly resistant to or possibly immune from streak. The way a rose variety reacts to streak naturally determines the kind of injury it will suffer when infected and also the part that the variety can play in maintaining streak virus in a nursery.

Most roses are subject to general infection and show symptoms in leaves or in canes when infected with streak. The most distinctive patterns are brown rings (Fig. 2A) and brown vein-banding (Fig. 2B) in fully expanded leaves, accompanied by brownish or greenish rings in canes (Fig. 1A and 1B), as shown by *odorata*, Silver Moon and other roses. Green vein-banding (Fig. 2C) appears in old leaves after they have lost their green color. A yellowish-green vein-banding (Fig. 2D) appears in the leaves of some hybrid multifloras, usually along with greenish or brownish rings in canes. The symptoms in these generally infected

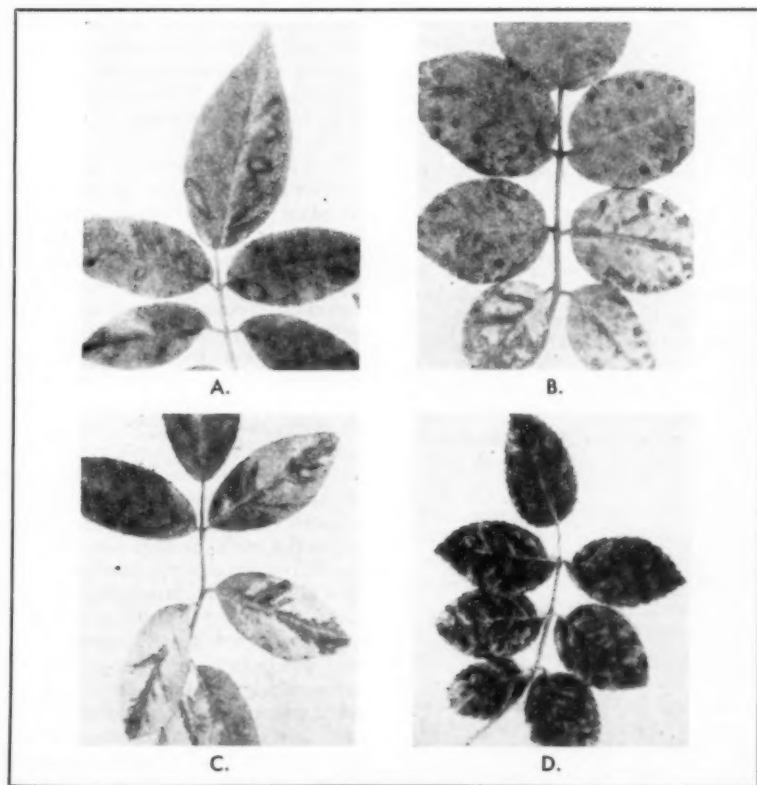


Fig. 2. Leaf symptoms of rose streak: A, brown rings in *Rosa odorata*; B, brown vein-banding in a Van Fleet hybrid; C, green vein-banding in old leaves of *R. odorata*, and D, yellow vein-banding in Jean Girin.



Fig. 1A. Ring symptoms in canes of Jean Girin.

Fig. 1B. Ring symptoms in canes of Miss G. Messman.

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The interior of one of the Buren J. Jones greenhouses, at Lebanon, Ind., showing four unit heaters with cone-shaped deflectors suspended from the ceiling.

## Unit Heaters as Replacements For Pipe Coils in Greenhouses

In an attempt to arrive at a practical solution to the problems presented by pipe coil radiation in heating greenhouses, progressive nurserymen and college and university agronomy departments have experimented with unit heaters during the past few years. Findings of their tests have resulted in the questioning of the widely accepted idea that the way to heat greenhouses is by means of conventional pipe coils or cast-iron radiating surfaces. Although cast-iron radiation has never been entirely satisfactory, no better method appeared to be available, and its inherent weaknesses have necessarily been overlooked.

Unit heaters have proved through the years to be an economical and efficient source of space heat in industrial and commercial buildings, and the recent testing of unit heaters shows them to be equally efficient in greenhouse installations, with many distinct advantages over pipe coil radiation.

### Installation at Jones Greenhouses

An installation of particular interest in this connection was made at the Buren J. Jones Greenhouses, at Lebanon, Ind., where geraniums are grown as a specialty and other types of plants and vegetables are pro-

duced for the wholesale trade. In two of the firm's greenhouses pipe coils were replaced with unit heaters equipped with cone type deflectors. Other houses in this same operation are still heated with pipe coils and offer an interesting comparison of the merits of the two heating systems.

Consisting of a fan, motor and heating element mounted in a housing, together with a means for diffusing and directing the flow of warm air, a unit heater is compact and light in weight. Suspended from the ceiling or mounted on the wall, it saves floor space. Heat flow is downward, directed toward the area where heat is needed.

With conventional heating, heated air collects in the upper levels of a building with a high ceiling, causing a costly waste of heat; thus, vertical or downblast unit heaters are especially effective for buildings such as greenhouses. The heated air is not only directed downward originally, but is also recirculated downward by the propeller fan, which is an integral part of the unit heater. It is this type of unit heater, with a downblast flow of air, that was installed in the Jones Greenhouses.

One of the houses, measuring

25x50 feet, is heated with two unit heaters. The second house, 25x100 feet, is served by four of the same type unit heaters. Each house has a 13-foot ridge height. These unit heaters were installed on a stoker-fired hot water system. Boiler water temperature is maintained at 190 degrees Fahrenheit. A starter and a thermostat in each house control only the unit heater fans.

### Performance of the Heaters

According to Mr. Jones, growing conditions in the houses heated by unit heaters were more satisfactory than he had ever experienced in the pipe coil heated houses. Plants in his houses are grown at both bench and ground levels.

Tests made by Mr. Jones were conducted during a period of the coldest weather his area had seen in 10 to 15 years. Temperatures outside dropped to 22 degrees F. below zero, yet he was able to maintain a greenhouse temperature of 46 degrees F. (The temperature normally maintained is 52 degrees F.) In spite of the severity of the winter, no plants were lost.

A smoke fumigator test was made to measure air distribution throughout the greenhouses, and it revealed that an almost perfect blanket of air was maintained about five feet above the floor at all times when the unit heaters were operating. Cold spots, which had been a source of trouble with pipe coil heating, were completely eliminated.

It was found that the warm air blanket distributed by the unit heaters absorbs the moisture accumulation on the plant leaves resulting from sprinkling and prevents damage caused by fungus or mold, a common trouble prevalent where pipe coils are used for heating.

In addition to eliminating cold spots, providing uniform temperatures, distributing air evenly and checking the growth of fungus or mold, the unit heaters have other advantages in greenhouse heating. Because they have a large heating capacity concentrated in a small area, the unit heaters are able to heat large areas faster than any other type of heating surface. Coupled with their air-moving feature, which prevents an expensive waste-heat reservoir from forming, this makes for economical operation. Fuel costs are proportionate to heat distribution, and furnishing heat to areas where it is not specifically needed naturally results in overheating and wasting heat.

Unit heaters provide a close cor-  
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The Attractive Exterior of Forbes Garden Center.

## Spring Promotions Aid Fall Bulb Sales

By Albert Kesheh

In the fall, the emphasis at the Forbes Garden Center is on bulbs. Store displays, advertising, catalogs and sales talks all accentuate autumn planting of the ever-popular tulips and daffodils, along with chinodoxa, crocuses, muscari and other, less well-known bulbs. Wisely planned publicity and good-will programs, a wide selection of varieties and a reputation for quality account for a busy season—and a busy year—at the center, with customers currently ordering their fall garden requirements by mail, telephone and, particularly, by personal visits to the sales ground or garden shop.

Forbes Garden Center is located at Millburn, N. J., and a sales garden is maintained at Hanover. Customers are served at both sites. The sales garden at Hanover includes a 700-foot frontage on route 10 and a parking space 50 feet deep and 400 feet wide. The garden center, which was occupied in 1952, was converted from a former bowling alley and has an attractive, castle-like facade of pale green stucco with stainless steel lettering across the front giving the trade name. It occupies a corner location and is suitably landscaped with evergreens. The two shopping areas cater to a wide and lucrative area of eastern New Jersey.

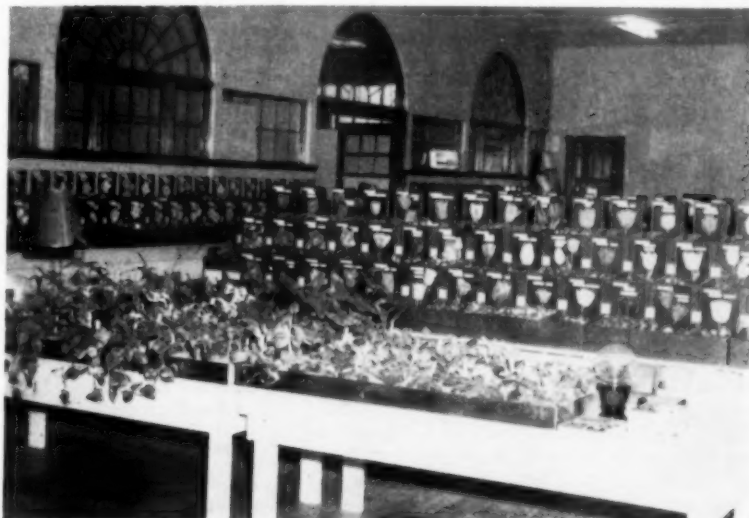
Typical of the Forbes' manner of merchandising is its bulb-selling program. Although fall is the season when bulb sales naturally reach their peak, to understand Forbes' dominant position in the area one should consider the appearance of the Forbes sales garden in the spring. Every spring about 140 kinds of tulips and 35 varieties of daffodils

bloom in generous beds of the company's sales garden at Hanover, attracting crowds of admirers and potential bulb buyers. This practice dates back to 1940, when tulip bulbs were imported for Forbes from Holland. The bulbs arrived in the last ship that left before war broke out. About 40,000 were planted at the Hanover location in a design of an American flag, complete with stars and stripes, in the natural colors of the bulbs. Great throngs were attracted from miles around to view the sight, and traffic became so dense that police had to maintain order. Customers who viewed this and subsequent displays inevitably think of Forbes when they think of bulbs.

The firm's annual practice of pre-

sending bulbs free to hospitals, schools and similar institutions does much to build good will. Newspaper advertising, emphasizing "extra-fine size and quality for extra-fine bloom," reminds readers that it is time to make their choices for autumn planting. A free fall catalog, which is sent to a large, select list, devotes its first six pages to pictures, descriptions and an orderly listing of available kinds and offers special mixtures for customers who are not sufficiently familiar with varieties to make their own selections. The sizes of the bulbs are stated in inches, rather than in centimeters, as this description is more comprehensible to most customers; and easy-to-fol-

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Interior of Forbes' retail showroom. Bulbs are arranged alphabetically along the aisles and flowers are pictured. A display of house plants appears in the foreground.



## CHARLIE CHESTNUT

A LIVER-SPOTTED DOG, A LOST LOAD  
OF BUSHES AND A DUMB NURSERYMAN



I know the title of this story is a little complicated, but that's the way the story is too. Last spring Emil stubbed his toe and lit on a feather-bed. That is, things might have turned out a lot worse than they did.

I heard Emil telling about it last winter at the convention, but, as it often happens, he likes to take some liberties with the actual facts. So I feel the members are entitled to know the true details of a day of confusion as it sometimes happens in a busy spring among some of the lower-bracket members.

It was a Monday morning, really it was Monday noon, just as Emil was leaving the office to go home for dinner. It always irritates Emil when somebody drives in just at 12 o'clock.

This customer was driving a Cadillac convertible; so Emil waited. "Chances are he wants a pailful of soil for his wife's African Violets," Emil says to me.

"My name's Applequist," the man says, "Einer Applequist." "What do you charge for a setting of stuff around the house?" he says.

"That all depends on," Emil says, "if you want the genuine honeysuckle special, or if you want something fancy like globe arborvitae and Irish juniper. Whatever you want, I got it," Emil says.

When I got back at 1 o'clock, Mr. A. was still there. Emil was out in the Chevy truck showing him around the nursery.

When they got back to the office Emil says to me, "Me and Mr. Applequist is going over to his house, get me a tablet and a pencil so I can make him a plan."

They drove off in Mr. A's car and I went out to dig two soft maples for Mrs. Morse. Emil didn't get back for his dinner until 2:30.

"What did you sell him?" I says after Mr. Applequist drove off.

"We got to get it out by Thursday," Emil says. "You'll have to let Mrs. Morse's stuff go. We got to dig six globes and six Irish junipers. I charged him \$110 for the whole layout. You better start on that while I get my dinner."

Thursday we was up to our neck with customers. Mrs. Morse was hollering for her stuff and Emil had three calls to make.

Emil says, "Let Will plant that Applequist job. He can follow my plan, 1110 Sherman avenue. Got to get it in today."

I started Will off with the load. Will is a retired farmer that works off and on for Emil every spring. I went over the plan with him and he drove out about 11 o'clock. He wasn't done by noon and he says to me, "Chas., that stuff don't fit in just like Emil has got it on the plan, I got one globe too many," he says.

"Just do the best you can. Just squeeze it in someplace, Will," I says. "It's a contract and we got to get everything in it someplace."

"Where'd that liver-spotted dog come from Will?" I says. I seen the dog laying there under the truck.

"He was on the porch where I was planting. He followed me home, aint nobody living in that house. Dog must be lost," Will says.

Will got home about 4 o'clock. There was that liver-spotted dog again. He hung right to Will.

The dog was still there the next morning. Emil went over to the house and brought over a couple of old ham hocks to feed the dog. "If nobody claims that dog, Emil says, I'll keep him for a bird dog. That's a well-bred dog."

Saturday morning Mr. Applequist come into the yard and beat it right for the office. Me and Emil was in the barn and seen him come in. "Looks like he is mad about something, Emil," I says, as we walked over to the office.

"You promised me Thursday and here it is Saturday. Whats the idea?" says Mr. Applequist.

"Guess you aint been over there," Emil says. "We put the stuff in Thursday afternoon like I promised."

"Dont give me that," says Mr. A., "I just come from there and there aint no trees or nothing."

Emil was dumfounded. "I got to go and see myself," Emil says.

Mr. A. and Emil drove away and they was back in a few minutes. "Where's Will" Emil says. "What in the world did he do with them trees? I seen him drive out with the trees, myself, last Thursday," Emil says.

"1110 Sherman avenue," I says.

"That's what you got on the slip and that's where he went."

"Sherman avenue!" says Applequist. "Its 1110 Bennett street. What kind of a screwball outfit is this anyway?"

(This is one place Emil's story differs from the facts. Emil blamed the mistake on Will, but Emil himself balled it up.)

"Chas," Emil says, "you get Will and go over and move them trees right away. We'll have them trees in by this afternoon, Mr. Applequist," he says.

By this time Mr. A. was calmed down quite a little. He was over looking at that dog. "Want to sell that dog?" he says to Emil, pointing at that liver-spotted dog, laying there by the office door. "Looks just like a bird dog I had one time, marked just the same way."

"He's a valuable dog, Mr. Applequist," Emil says. "Dont know if I would care to sell him."

"I'll give you a \$100," Mr. A. says. "Think it over. I'll be out later after you get the trees moved."

Right after dinner me and Will went down to dig up them trees. There was a real-estate agent parked in front of the house, sitting in his car.

He got out when me and Will started to unload our stuff. "Who give you any order to plant these trees?" he says. "Digging up the grass and putting in that junk. You made yourself liable for heavy damages," he says.

"Its all a mistake," I says. "We got the wrong house. We'll take them out right away."

"Dont touch nothing until I see my lawyer," he says.

Just then a lady drove up, evidently she had an appointment to look the place over. Will and I went back and sat in the truck to think things over.

There was a small boy playing in the next yard, so I says, "Is that your liver-spotted dog I seen here the other day?"

"Naw," he says, "that belonged to the family that moved out last week. They give it to the man on the garbage truck, but his wife wouldnt let him keep it; so the dog come

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# Using Plastic in Outdoor Grafting Of Conifers

By Henry Teuscher

Curator, Montreal Botanical Garden, Montreal, Que.

The new polyethylene plastics, which are moistureproof but allow oxygen and carbon dioxide to pass through, have found a permanent place in plant propagation. Their great value in the air layering of plants which are difficult to raise from cuttings is so well established that no more need be said about it, but the air layering procedure, which we employ frequently, suggested to us another promising possibility of use.

The grafting of conifer varieties on potted stock, when carried out in late winter, requires a great deal of greenhouse space which renders the procedure expensive. With us greenhouse space is at a premium at this particular period because of the preparations for a spring flower show, and anything that can be done to lighten the greenhouse load provides welcome relief. Others may find themselves in a similar position for various other reasons and, besides, the method which will be described presently will also enable

the amateur, who has no greenhouse at his disposal, to propagate his conifers if he wishes to do so.

## Using the Plastic

When approach grafting on potted stock is carried on outdoors in spring, with the pots containing the stock plants sunk in the ground around the mother plant, only the lower branches are within reach, and these usually do not provide the most desirable scions. This difficulty can be overcome by wrapping the well-watered pot containing the stock plant first in wet sphagnum moss and then in polyethylene plastic, sealing the latter watertight with tape on top. The stock plants thus pre-

pared may then be placed on quickly erected temporary scaffolds all around the mother plant up to any desired height, and the upper branches thus brought into easy reach can be used for approach grafting.

With us in eastern Canada the best time to carry out this procedure is after the middle or toward the end of May, when the tip buds of the branches are just commencing to burst. Elsewhere this strategic period is likely to arrive earlier, and it will vary somewhat also with the type or variety of conifer involved. Four weeks later the union is complete and the scion can be severed from the

[Continued on page 81]



In the grafting method described in the accompanying article, the pot of the stock plant is surrounded with moist sphagnum moss and then wrapped in polyethylene plastic.



Stock plants, wrapped in plastic, secured on temporary scaffolding.



Young grafts, after the top of the stock plant has been removed in the coldframe.

## ETHICS in the Nursery Business

By Leland Jens

No individual may claim special qualifications for a discussion on ethics, but at the same time he need not defer to any other individual, for ethics is entirely a personal question—and that is the first point that should be made in a discussion on ethics. In the case of ethics, there is no actual standard of evaluation except your own unless you can detect the composite standard as we group together, but even if so, it is a personal or individual question with which we are dealing and beyond that area circumscribed by legal framework; what is right or ethical and what is wrong or unethical is what you determine. I cannot, therefore, tell anyone what is right and what is wrong for that is something that only the individual can resolve for himself.

Webster says ethics "is the science of morals" and we can consider some things of an ethical nature, although I do not imagine we shall be very scientific about it.

At the time I was in college, I took a course called "Business Ethics," and the class argued at great length such questions as that concerning the used car dealer who did not explain to the customer that the brakes were defective. He did not say the brakes were working—but then, he did not say they were not working either. We argued the policy of "Let the buyer beware" against the responsibility of business right down to how many kids were killed at the bottom of the hill. Fortunately, ethics in the nursery industry does not ordinarily involve anything so dramatic or potentially tragic, but it is a question just as real and just as serious.

There are two phases of the problem that should be considered. One is ethical relationships between wholesaler and retailer, or ethics within the trade, and the other is the relationships between the retailer and the public. They are not considered separately because a different standard of ethics applies but because they are different in nature.

### Within the Trade

Ordinarily, within the trade, an informed buyer is dealing with an

From an address, "Ethics in the Nursery Business," by Leland Jens, Jens Nursery & Landscape Co., Wisconsin Rapids, Wis., at the past annual meeting of the Wisconsin Nurserymen's Association.

informed seller, and there is no substitution for a full understanding when a transaction is pending. And the degree to which the proposed transaction is understood is the degree to which ethical considerations will not enter in. There would be no ethical question in the case of the used car dealer if the buyer had the same information concerning the brakes that the seller had.

However, there are two things about our commodity primarily responsible to ethical questions within the trade. One thing is that it can never be as completely standardized as, let us say, 6-ply tires or 30 shares of General Electric common. The other factor is that it is perishable. In questions involving either of these two factors, judgment, involving ethics, must be an ingredient. Was the wholesaler unduly careless in processing this merchandise to the extent that I received quality less than I had a right to expect? Was the merchandise in conformance with the spirit of the

standards of the A. A. N., or was it a fishermen's rule they used in measurement? Did the aggrieved purchaser accompany his complaint with full payment so that there was a basis of equality between the two parties before attempting to adjust the matter? Does ordinary reasonableness characterize the transaction? These are questions of an ethical nature concerning the trade, and they are resolved, perhaps by necessity, for the truly unethical cannot survive within the trade. He simply will not obtain the business, or will not obtain it for long.

More important than this question is that vast domain where the public is a participant. It is necessary, in this connection, only to mention the word "advertising" and we shall be thinking together, for unfortunately the cases in point are so numerous as to require no recitation. In this matter I should like to say, first, that everyone in the trade suffers from the unscrupulous advertiser.

The effect is direct, of course, in the business lost to the unscrupulous advertiser, but far more important is the corrosion of all nurserymen's reputations in the mind of the public as the chiseler undermines confidence

[Continued on page 55.]

## Nurseryman Develops Balling Machine

An evergreen-balling machine—said to be the first of its kind in the nursery trade—has recently been perfected by J. C. Slatton, president of Slatton Nursery & Implement Co., McMinnville, Tenn.

The balling machine is easily attached to the hydraulic lift of any 3-plow tractor and supports 5,000 pounds of pressure, which provide the driving force pushing the machine into the ground. Thirty-five hundred pounds of pressure result from the tractor lift while 1,500 come from a huge spring inserted in the shaft of the digging apparatus.

The 4-slot dipper is placed around the evergreen plant, and one of the operators of the machine touches a button, which releases the digger and plunges it into the earth. The machine automatically recoils from the



J. C. Slatton's Balling Machine in the Field.

earth, and an operator places burlap around the dipper and releases the evergreen ball.

Operated by three men, the machine does the work of 20 men in an 8-hour day, will dig three evergreens in two minutes' time and can be installed on a tractor in 15 minutes.



Illustration A (See Text).

## Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

### BUILDING GARDEN WALKS

[Last of a series]

With the varied materials that are available for making walks and paths, there is no reason why they cannot be as inviting as the well-planted doorway. It should be remembered, too, that walks not only influence the design and direct the interest, but must also be of a practical nature, particularly if they are to receive any real amount of traffic.

Have you ever noticed how and where paths are made on some school or college grounds? The smart superintendent of grounds will allow the students to walk over the campus as they will for some time before he plans his distribution of circulation. It is not a long wait, because well-worn paths are soon made by those who use them. Drainage is provided if it is needed, and permanent mate-

rial then marks a walk of ample width—and this is extremely important for a free flow of scurrying or lagging feet. In this case design is sacrificed for the convenience of those who use the paths. Is there a better reason?

The private individual presents a different problem, since his means of circulation will not be used by the same number of people as a public walk. However, the practical placement of walks and the choice of materials may be just as important a consideration. Under home conditions persons are not in such a hurry, and their walking is usually for the purpose of pleasure and the enjoyment of their garden.

### Curved Walk Has Interest

The curved walk is more interesting to most persons, since it does not appear as a unit. Attention does not

consume it in one glance, but leaves an opportunity for play of the imagination. Illustration A shows a path with a graceful flow of edges. It is also wide enough not to appear ribbonlike and practical enough to accommodate many persons. There should be a reason for such a curve in a walk, and in this case it is the group of Pfitzer junipers. The reason could also be a tree, a planting of shrubs, a structure or even an artistic impression.

Wiggly paths, and you have seen them, are not only uncertain in their purpose but are also difficult to maintain. When re-edging, it is always hard to get the same wiggle in its original place—wiggles can become waggles. Slow, graceful curves tell a better story. This practice should also be followed in the edging of flower borders and other plantings where curved lines are involved. By using permanent edging materials, the path retains its form and eliminates the continual need for a good man with an edger.

A curved walk in the front of a home should join the driveway or front walk at as near a right angle as possible. Many times you have seen a walk that bends into its adjoining means of circulation so that a narrow angle results. This leaves a narrow strip of turf that is bounded on two sides by materials that hold and reflect extra summer heat. Such an area remains a problem, in that it dries out and encourages crab grass or other weeds to thrive.

Sometimes we are confronted with the problem of making a path for a client who must maintain it himself and is unable to spend much time at it. Such cases, of course, demand a walk that requires little or no weeding or edging. The answer is to use a permanent material that will take the travel of many feet, with metal or treated wooden edges.

[Continued on page 86]

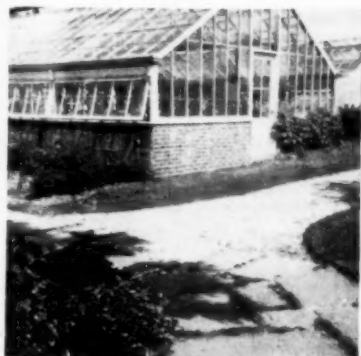


Illustration B (See Text.)



Illustration C (See Text.)



Illustration D (See Text.)



# SHERWOOD'S CHOICE LINING-OUT

**All hardy, northern, field-grown stock.**

	Each	10	100	1000
<b>Abelia</b> (Edward Goucher) A choice upright abelia similar to grandiflora, but with foliage of richer coloring. 6 to 12 ins., once transplanted.....			\$13.00	\$104.00
<b>Abelia grandiflora sherwoodi</b> (Sherwood Dwarf Abelia) A dwarf abelia. Not only the plant but the leaves and the flowers as well are about half the size of grandiflora. 6 to 12 ins., once transplanted..... 12 to 15 ins., once transplanted.....			\$13.00 15.00	\$104.00 120.00
<b>Abies concolor</b> (White Fir) A tree of symmetrical growth and beautiful bluish foliage. 1 to 3 ins., once transplanted..... 3 to 6 ins., once transplanted.....			\$ 8.00 10.00	\$ 64.00 80.00
<b>Ajuga reptans rubra</b> (Purpleleaf Bugle) A worthy rock plant and ground cover. 1-yr. plants .....			\$ 8.00	\$ 64.00
<b>Azalea amoena coccinea</b> A splendid dwarf evergreen azalea. Flowers bright red. 1 to 3 ins., once transplanted..... 3 to 6 ins., once transplanted.....			\$12.00 14.00	\$ 96.00 112.00
<b>Azalea hexa</b> (Firefly Azalea) Dwarf and compact. Foliage heavy, glossy, dark green. Flowers bright red. 1 to 3 ins., once transplanted.....			\$12.00	\$ 96.00
<b>Azalea mollis</b> (Chinese Azalea) Very hardy. Chiefly in the popular shades of salmon and orange. 1 to 3 ins., once transplanted..... 3 to 6 ins., once transplanted..... 9 to 12 ins., twice transplanted, B.R. budded specimens .....			\$11.00 14.00 \$0.75	\$ 88.00 112.00 \$6.80 61.00
<b>Sherwood Cerise Azalea</b> A wonderful dwarf evergreen. Flowers bright, clear cerise. 1 to 3 ins., once transplanted..... 3 to 6 ins., once transplanted.....			\$12.00 14.00	\$ 96.00 112.00
<b>Sherwood Orchid Azalea</b> Flowers are a clear lavender and completely cover the plant. Dwarf. 6 to 9 ins., twice transplanted, B.R. specimens .....			\$0.60	\$5.40 \$49.00
9 to 12 ins., twice transplanted, B.R. specimens .....			.80 7.20	65.00
<b>Sherwood Red Azalea</b> Compact, dwarf and evergreen. Flowers the most brilliant blood-red imaginable. 1 to 3 ins., once transplanted..... 3 to 6 ins., once transplanted..... 6 to 9 ins., once transplanted..... 9 to 12 ins., once transplanted.....			\$12.00 14.00 17.00 21.00	\$ 96.00 112.00 136.00 168.00
<b>Berberis darwini</b> (Darwin Barberry) Height of about 5 feet. Foliage is deep green, glossy and compact. 1 to 3 ins., not transplanted..... 3 to 6 ins., not transplanted.....			\$ 8.00 10.00	\$ 64.00 80.00
<b>Calluna vulgaris aurea</b> (Golden Heather) Possesses fine golden foliage. Flowers are in soft, pleasing lavender shades. 9 to 12 ins., twice transplanted, B.R. specimens .....			\$5.40	\$49.00
<b>Cedrus atlantica</b> (Atlas Cedar) A hardy tree with dark green foliage and rugged picturesque habit. 9 to 12 ins., once transplanted.....			\$16.00	\$128.00
<b>Cedrus deodara</b> (Deodar Cedar) The Deodar Cedar grows into a fountain of green of unsurpassing beauty. 3 to 6 ins., once transplanted.....			\$11.00	\$ 88.00
<b>Chamaecyparis lawsoniana ellwoodi</b> (Ellwood Cypress) A trim, compact, narrow pyramid with soft, feathery, bluish-green foliage. 9 to 12 ins., once transplanted.....			\$17.00	\$136.00
<b>Chamaecyparis lawsoniana minima glauca</b> (Little Blue Cypress) A beautiful, true dwarf conifer, dark and dense, bluish-green foliage. 1 to 3 ins., once transplanted.....			\$14.00	\$112.00
<b>Chamaecyparis pisifera filifera</b> (Thread Cypress) A graceful and attractive tree crowned and covered with slender pendulous branches. 9 to 12 ins., once transplanted.....			\$17.00	\$136.00
<b>Cotoneaster apiculata</b> (Cranberry Cotoneaster) One of the finest semiprostrate deciduous cotoneasters. 6 to 9 ins., twice transplanted, B.R. specimens .....			\$4.50	\$41.00
9 to 12 ins., twice transplanted, B.R. specimens .....			5.40	49.00
<b>Cotoneaster conspicua decora</b> (Necklace Cotoneaster) An unusually fine prostrate evergreen growing 3 feet high. 9 to 12 ins., twice transplanted, B.R. specimens .....			\$5.40	\$49.00
<b>Cotoneaster francheti</b> (Franchet Cotoneaster) Generally recognized as one of the most graceful and ornamental. 12 to 15 ins., twice transplanted, B.R. specimens .....			\$5.40	\$49.00
18 to 24 ins., twice transplanted, B.R. specimens .....			6.80	73.00
<b>Cotoneaster horizontalis</b> (Rock Cotoneaster) Well-known and deservedly a great favorite; low growing. 6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Cryptomeria japonica elegans</b> (Plume Cryptomeria) A rapid-growing tree with dense green plumelike foliage. 9 to 12 ins., once transplanted.....			\$17.00	\$136.00
<b>Cryptomeria japonica elegans compacta</b> (Compact Plume Cryptomeria) A green cone-shaped tree of unusually compact growth. 6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Cryptomeria japonica lobbi</b> (Lobb Cryptomeria) An upright shapely dwarf conifer growing to a few feet in height. 1 to 3 ins., once transplanted.....			\$14.00	\$112.00
<b>Cryptomeria japonica nana</b> (Dwarf Cryptomeria) Light green, hardy, very compact globe, extremely dwarf. 1 to 3 ins., once transplanted.....			\$14.00	\$112.00
<b>Erica carnea</b> (Springwood White Heath) Fine low-growing heath with an abundance of bright green foliage. 3 to 6 ins., once transplanted..... 6 to 9 ins., once transplanted.....			\$11.00 14.00	\$ 88.00 112.00
<b>Gaultheria procumbens</b> (Wintergreen) The fine foliage, the small, delicate, pink, bell-shaped flowers, the brilliant red berries and its hardness combine to make it one without peer in its class. 2-yr., once transplanted.....			\$10.00	\$ 80.00
<b>Hedera helix conglomerata</b> (Bunchleaf English Ivy) Low growing. Leaves crowded, contorted and small. 1-yr., once transplanted.....			\$ 8.00	\$ 64.00
<b>Juniperus chinensis pfitzeriana</b> (Pfitzer Juniper) This well-known juniper can scarcely be excelled for terrace and mass planting. 3 to 6 ins., twice transplanted.....			\$14.00	\$112.00
<b>Juniperus horizontalis</b> (Bar Harbor Green Creeping Juniper) This is a lovely green form. Procumbent and trailing. 9 to 12 ins., twice transplanted.....			\$21.00	\$168.00
<b>Juniperus scopulorum</b> (Rocky Mountain Juniper) The well-known and justly popular western juniper. A very hardy tree; color bluish-green or silvery. 9 to 12 ins., once transplanted.....			\$17.00	\$136.00
<b>Juniperus virginiana</b> (Red Cedar) Foliage dense green in spring, darkening to a rich bronze in winter. 9 to 12 ins., once transplanted.....			\$17.00	\$136.00

# UT AND BARE-ROOT EVERGREENS

	Each	10	100	1000
<b>Kalmia latifolia</b> (Mountain Laurel) Native of the Appalachian mountains. Compact, symmetrical. Plants are literally bouquets of lovely, cup-shaped flowers.				
6 to 9 ins., once transplanted.....			\$20.00	\$160.00
9 to 12 ins., once transplanted.....			25.00	200.00
6 to 9 ins., twice transplanted.....			24.00	192.00
9 to 12 ins., twice transplanted.....			29.00	232.00
<b>Laurocerasus lusitanica</b> (Portuguese Laurel) Unexcelled among broad-leaved evergreens for hedges.				
6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Laurocerasus zabeliana</b> (Zabel Laurel) Grows 6 to 8 feet. Foliage rich, glossy green.				
6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Libocedrus decurrens</b> (Western Incense Cedar) A tall-growing tree. Grown chiefly for its handsome, fragrant evergreen foliage and charming habit of growth.				
9 to 12 ins., once transplanted.....			\$18.00	\$144.00
<b>Lonicera nitida</b> (Box Honeysuckle) Evergreen shrub to 6 feet. Good hedge subject.				
6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Mahonia aquifolium</b> (Oregon Grape) An ornate little evergreen shrub. Attractive in foliage, flower and fruit.				
1 to 3 ins., not transplanted.....			\$ 8.00	\$ 64.00
3 to 6 ins., not transplanted.....			9.00	72.00
3 to 6 ins., once transplanted.....			12.00	96.00
6 to 9 ins., once transplanted.....			15.00	120.00
<b>Mahonia nervosa</b> (Longleaf Hollygrape) Plants grow 12 to 18 inches tall. Does well in sun or shade.				
1 to 3 ins., once transplanted.....			\$ 9.00	\$ 72.00
3 to 6 ins., once transplanted.....			12.00	96.00
<b>Nandina domestica</b> (Nandina) Characterized by delicate foliage, large clusters of bright red berries. Height 4 to 5 feet.				
3 to 6 ins., once transplanted.....			\$10.00	\$ 80.00
<b>Osmanthus delavayi</b> (Delavay Osmanthus) Garden aristocrat. Leaves small, flowers white, with wonderful fragrance.				
1 to 3 ins., once transplanted.....			\$10.00	\$ 80.00
<b>Osteomeles swerioranae</b> Dainty, light green, fernlike foliage. Flowers are suggestive of apple blossoms.				
3 to 6 ins., once transplanted.....			\$12.00	\$ 96.00
<b>Pachysandra terminalis</b> (Japanese Spurge) Especially valuable as a ground cover.				
1-yr. plants.....			\$10.00	\$ 80.00
<b>Pernettya mucronata</b> (Chilean Pernettya) Neat evergreen foliage. Height of 4 to 5 feet.				
Pink-berried, 3 to 6 ins., once transplanted.....			\$12.00	\$ 96.00
White-berried, 3 to 6 ins., once transplanted.....			12.00	96.00
<b>Picea excelsa</b> (Norway Spruce) One of the best-known and one of the hardiest of conifers.				
1 to 3 ins., not transplanted.....			\$ 4.00	\$ 32.00
6 to 9 ins., once transplanted.....			10.00	80.00
<b>Pieris japonica</b> (Oriental Pieris) In early spring it is crowned in a magnificent way with large clusters and masses of white, drooping, bell-shaped flowers.				
3 to 6 ins., once transplanted.....			\$16.00	\$128.00

	Each	10	100	1000
<b>Pinus mughus compacta</b> (Mugho Pine) A dense, stout dwarf evergreen of unquestionable hardiness. Our trees are the best type.				
6 to 9 ins., twice transplanted, B.R. specimens.....			\$0.75	\$6.80
9 to 12 ins., twice transplanted, B.R. specimens.....			.90	8.10
<b>Pseudotsuga douglasii</b> (Douglas Fir) Colorado silver-gray strain, considered the best for ornamental purposes.				
9 to 12 ins., once transplanted.....			\$15.00	\$120.00
<b>Taxus cuspidata</b> (Japanese Yew) One of the most satisfactory of all dwarf evergreens.				
1 to 3 ins., once transplanted.....			\$12.00	\$ 96.00
3 to 6 ins., once transplanted.....			15.00	120.00
6 to 9 ins., once transplanted.....			20.00	160.00
<b>Thuja occidentalis</b> (American Arborvitae) An old, standard favorite.				
12 to 15 ins., once transplanted.....			\$18.00	\$144.00
<b>Thuja occidentalis nana</b> (Little Globe Arborvitae) A dwarf of regular form.				
1 to 3 ins., once transplanted.....			\$13.00	\$104.00
<b>Thuja occidentalis pyramidalis</b> (American Pyramidal Arborvitae) Where effective hedges requiring but little space are desired, Pyramidal Arborvitae has no counterpart.				
9 to 12 ins., once transplanted.....			\$20.00	\$160.00
12 to 15 ins., once transplanted.....			25.00	200.00
<b>Tsuga canadensis</b> (Canada Hemlock) A well-known conifer of graceful, pleasing habit of growth.				
12 to 15 ins., once transplanted.....			\$20.00	\$160.00
<b>Tsuga mertensiana</b> (Mountain Hemlock) The west's most beautiful alpine conifer.				
12 to 15 ins., once transplanted.....			\$24.00	\$192.00
<b>Vaccinium vitis-idaea</b> (Mountain Cranberry) Choice little ground cover having small, delicate leaves and pink bell flowers.				
1-yr., once transplanted.....			\$15.00	\$120.00
<b>Veronica cupressoides</b> Leaves bright green, giving excellent satisfaction in hedges or specimens.				
9 to 12 ins., once transplanted.....			\$16.00	\$128.00
<b>Veronica cupressoides nana</b> A very dense dwarf for low borders and hedges.				
6 to 9 ins., spread specimens, B.R.....			\$3.60	\$32.00
<b>Veronica hectori</b> A very unusual evergreen with russet-green foliage in summer turning to a rich golden color in the winter season.				
6 to 9 ins., once transplanted.....			\$14.00	\$112.00
<b>Veronica officinalis</b> (Ground Speedwell) A remarkable, hardy, evergreen ground cover for shady places.				
1-yr. plants.....			\$ 8.00	\$ 64.00

Prices quoted are net cash prices and include expert packing and delivery on lining-out stock to all points in the United States, Canada, and Alaska. No packing charge on B.R. stock. Prices quoted on B.R. stock are F.O.B. Portland, Ore.

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# Plant Notes Here and There

By C. W. Wood

The false sunflowers, *heliopsis* of botanists, suffer in the estimation of gardeners because horticultural literature is full of statements that they are coarse. That is not true, however, for in *H. scabra vitellina* we have an attractive border plant and a splendid cut flower. In fact, it has none of the characters which one ordinarily associates with coarseness, its 20-inch stems being clothed in pleasingly crinkled leaves and terminating in large, double flowers of brilliant golden-yellow. Its blooming period, from July to October, adds not a little to its value. These features make an excellent garden plant, especially for dry, sunny spots which often tax the gardener's ingenuity to persuade them to produce beauty. It came true from seeds in our trials.

The type, *Heliopsis scabra*, occurs naturally from the New England states to New Jersey and westward to New Mexico. It has varied in nature and in gardens from an exceedingly pale yellow, as in variety *graciosa*, to deep golden-yellow and includes a single type, which probably could be called coarse. The single forms have less appeal than the double, I think, but I hear that variety *patula* is a charming thing, with immense flowers having a double row of yellow petals. Several double ones have received names in gardens, the one mentioned previously being the best that I know—best from the aspect of looks and best from the commercial grower's standpoint, because he can grow it from seeds.

## Propagating Gaillardias

In answer to G. L. (Indiana): Named varieties of *gaillardia* have to be propagated vegetatively if they are to come true. Division of the clumps in early spring is the plan usually followed when only a few plants are needed; if fast multiplication is desired, as in the case of the commercial grower, it may be accomplished by means of root cuttings. For these, dig the clumps in early spring and cut the fleshy roots into 1-inch lengths, planting them upright in furrows in flats of light soil or in a frame, if indoor space is not available. They may be lined out in nursery rows after they have made sufficient top growth and will be ready for their permanent quarters by autumn.

I have been thinking lately, with not a little nostalgic pleasure, of my

experience with the *eriogonum*s. The experiences covered several years and brought me several new friends and even more good garden plants. Among the former was the late D. H. Snowberger, who collected out of Payette, Ida., from whom came at least 20 different *eriogonum* species. Before Mr. Snowberger is forgotten in the onward march of horticultural events, I should like to register appreciation of his selfless efforts in the cause of American horticulture. He, together with many others, several of whom have been mentioned in this column during the past 20 years, spent untold hours, often without monetary returns, bringing native plants to our attention.

But to get back to our original subject, *eriogonum* is a vast entanglement of weeds and ornaments, so

confused by gardeners and by botanists that it makes hard going for the nurseryman; yet, the value of the few good kinds that I have grown tells me that someone is going to enrich American horticulture when he makes further search among them, learns how to make them happy in the garden and makes stock available. I am convinced by a rather extensive experience in the genus that they are not nearly so difficult to cultivate as the literature would lead one to believe. I refer to remarks like Gabrielson's in his book, "Western American Alpines," to the effect that "attempts at cultivation have been none too successful, but there is always the hope that next time will be different." This and similar reports on culture come, I am sure, from investigators who base their opinions on collected

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	Per 1000
1 to 2 mm., 8 to 12 ins. in height	\$10.00
2 to 3 mm., 12 to 15 ins. in height	15.00
3 to 4 mm., 15 to 18 ins. in height	18.00
4 to 6 mm., 18 to 24 ins. in height	35.00
6 to 12 mm., 24 to 30 ins. in height	55.00
Conservation grade, 3 to 12 mm., 12 to 30 ins. in height	22.50

Will be shipped cut back to about 8 ins. unless stated otherwise. Sample for \$2.00. Special prices on large quantities. Heights are approximate.

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Lady Derby, light pink  
La Victoire, red  
Pink Pearl, rose  
Queen of the Pinks, pink, late

### WHITE VARIETIES

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White Beauty, pure white, late  
White Star, pure white, late  
L'Innocence, pure white

### BLUE VARIETIES

Bismarck, medium-blue  
Grand Maitre, medium-blue  
King of the Blues, dark blue  
Myosotis, light blue  
CITY OF HAARLEM, pure yellow

EXHIBITION SIZE, 19 cm. and up... \$140.00  
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EXTRA MINIATURES, 14 to 15 cm. .... 65.00

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## TULIPS

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### PARROT TULIPS

	Top Size	1st Size	2nd Size
Blue Parrot, heliotrope.....	\$42.00	\$38.00	\$34.00
Fantasia, pink with green.....	42.00	38.00	34.00
Firebird, red Fantasia.....	42.00	38.00	34.00
Orange Favorite, deep orange.....	40.00	36.00	32.00
Sunshine, golden yellow.....	48.00	44.00	40.00
There's, large cherry-red.....	48.00	44.00	40.00
Rainbow Mixture, all colors.....	42.00	38.00	34.00

### DARWIN TULIPS

	Top Size	1st Size	2nd Size
Afterglow, orange with salmon.....	40.00	36.00	32.00
Baritone, cochineal-red.....	38.00	34.00	30.00
Blue Eagle, deep purple.....	42.00	38.00	34.00
Campfire, blood-red.....	40.00	36.00	32.00
Chas. Neudham, large scarlet.....	50.00	45.00	40.00
City of Haarlem, scarlet.....	52.00	46.00	40.00
Clara Butt, soft pink.....	40.00	36.00	32.00
Duke of Wellington, pure white.....	48.00	44.00	40.00
Eclipse, extra large, crimson.....	50.00	45.00	40.00
General De La Rey, flesh-pink.....	70.00	60.00	50.00
Glacier (Wildlust), pure white.....	48.00	44.00	40.00
Insurpassable, lavender.....	48.00	44.00	40.00
King George V, cherry-red.....	40.00	36.00	32.00
Mount Erebus, finest white.....	48.00	44.00	40.00
New Orleans, large wine-red.....	40.00	36.00	32.00
Niphetos, lemon-yellow.....	52.00	46.00	40.00
Philips Snowden, best pink.....	38.00	34.00	30.00
Pride of Haarlem, rosy-carmine.....	38.00	34.00	30.00
Pride of Zwanenburg, rose.....	48.00	44.00	40.00
Princess Elizabeth, rose-pink.....	40.00	36.00	32.00
Purple Perfection, violet-purple.....	48.00	44.00	40.00
Queen of the Night, black.....	40.00	36.00	32.00
Red Master, scarlet sport.....	40.00	36.00	32.00
Scotch Lassie, lavender.....	42.00	38.00	34.00
Smiling Queen, clear pink.....	70.00	60.00	50.00
Sunkist, golden-yellow.....	42.00	38.00	34.00
The Bishop, violet-blue.....	52.00	46.00	40.00
The Peach, peach-pink.....	42.00	38.00	34.00
White Giant, pure white.....	48.00	44.00	40.00
Wm. Pitt, early red.....	38.00	34.00	30.00
Yellow Giant, dark yellow.....	40.00	36.00	32.00
Zwanenburg, pure white.....	42.00	38.00	34.00
Rainbow Mixture, all colors.....	38.00	34.00	30.00

### COTTAGE OR SINGLE LATE TULIPS

	Top Size	1st Size	2nd Size
Advance, scarlet-orange.....	55.00	50.00	45.00
Cararra, purest white.....	40.00	36.00	32.00
Dido, orange-red.....	40.00	36.00	32.00
Golden Harvest, large yellow.....	40.00	36.00	32.00
Marshall Hall, bright scarlet.....	50.00	45.00	40.00
Marjorie Bowen, salmon-rose.....	40.00	36.00	32.00
Mother's Day, pale yellow.....	38.00	34.00	30.00
Mrs. John T. Scheepers, yellow.....	48.00	44.00	40.00
Mrs. Moon (Lily Flow.), yellow.....	42.00	38.00	34.00
Northern Queen, large white.....	50.00	45.00	40.00
Pride of Holland, golden-yellow.....	40.00	36.00	32.00
White Duchess (Lily), white.....	48.00	44.00	40.00
Yellow Emperor, golden yellow.....	42.00	38.00	34.00
Rainbow Mixture, all colors.....	38.00	34.00	30.00

### BREEDER TULIPS

	Top Size	1st Size	2nd Size
Dillenburg, orange-edged apricot.....	40.00	36.00	32.00
George Grappe, soft mauve.....	48.00	44.00	40.00
J. J. Bouwman, tomato-red.....	42.00	38.00	34.00
Louis XIV, dark purple.....	48.00	44.00	40.00
Morocco Beauty, coffee-brown.....	52.00	46.00	40.00
Orange Delight, dark yellow.....	48.00	44.00	40.00
Rainbow Mixture, all colors.....	42.00	38.00	34.00

### BOTANICAL TULIPS

	Top Size	1st Size	2nd Size
Clusiana (Lady tulip), white.....	\$45.00	40.00	36.00
Eichler, crimson-scarlet.....	38.00	34.00	30.00
Fosteriana Red Emperor, large scarlet.....	85.00	75.00	65.00

### PEONY-FLOWERING TULIPS

(May-flowering)

	Top Size
Bonanza, red with yellow border.....	\$52.00
Coxa, orange-red, with white edge.....	70.00
Eros, lilac-rose, large, 22 ins.....	75.00
Mount Tacoma, large, pure white.....	48.00
Nizza, yellow with red spots.....	60.00
Symphony, sport of Pride of Haarlem.....	52.00
Rainbow Mixture, all colors.....	52.00

### SINGLE EARLY TULIPS

	Top Size
Couleur Cardinal, crimson-scarlet.....	50.00
Gen. de Wet, pure orange.....	42.00
Ibis, brilliant pink.....	42.00
Kelzarskroon, red with yellow border.....	60.00
White Hawk, pure white, early.....	42.00
Yellow Prince, bright yellow, fragrant.....	42.00
Rainbow Mixture, all colors.....	42.00

### DOUBLE EARLY TULIPS

	Top Size
Boule de Neige, large pure white.....	48.00
Electra, deep wine-red.....	48.00
Mr. Van Der Hoeft, pure golden-yellow.....	48.00
Orange Nassau, orange-scarlet.....	48.00
Peachblossom, deep rose.....	48.00
Rainbow Mixture, all colors.....	48.00

## DAFFODILS

### TRUMPET VARIETIES

	Rd. and Heavy Double-Mother nosed D.N.
Beersheba, pure white.....	\$110.00 \$100.00
Bongthon, bicolor.....	95.00 85.00 60.00
Golden Harvest, golden-yellow.....	105.00 95.00 60.00
Imperator, pure white.....	110.00 100.00
King Alfred, yellow, frilled.....	85.00 70.00 45.00
Mrs. E. H. Krelage, creamy.....	90.00 80.00 55.00
Mount Hood, pure white.....	145.00 130.00
Mrs. R. O. Backhouse, white, trumpet pink.....	110.00 95.00 70.00
Rembrandt, improved King Alfred.....	85.00 70.00 45.00
Spring Glory, good bicolor.....	95.00 85.00 60.00

### LARGE-CUPPED VARIETIES

	Top Size	1st Size	2nd Size
Carlton, giant yellow.....	75.00	65.00	40.00
Clamor, white with orange-red cup.....	65.00	55.00	40.00
Daisy Schaefer, white.....	100.00	85.00	60.00
Dick Wellband, white, orange crown.....	80.00	70.00	50.00
Fortune, giant yellow, deep orange crown.....	95.00	80.00	55.00
John Evelyn, white, large yellow, frilled cup.....	70.00	60.00	40.00
Mangsteen, yellow, red cup, new.....	75.00	65.00	45.00
Orange Glow, yellow.....	70.00	60.00	40.00
Selma Lagerlof, orange and red crown.....	95.00	80.00	60.00
Semper Avanti, creamy perianth.....	80.00	70.00	50.00
Suda, white, trumpet tinted pink.....	90.00	80.00	60.00
Tenedos, white, large white trumpet.....	120.00	110.00	90.00
Tunis, apricot-pink trumpet.....	85.00	75.00	60.00

## DAFFODILS (Cont.)

### SHORT-CUPPED VARIETIES

	Rd. and Heavy Double-Mother nosed D.N.
Alda, white with red.....	\$70.00 \$55.00 \$40.00
Firetail, white, red eye.....	70.00 60.00 40.00
La Blante, perfect white, red cup.....	70.00 60.00 40.00

### POETICUS VARIETIES

	Top Size	1st Size	2nd Size
Acten, white, red eye.....	70.00	60.00	40.00
Recurvus, Pheasant's-eye.....	70.00	60.00	40.00

### POETAZ VARIETIES

	Top Size	1st Size	2nd Size
Cheerfulness, double white, late.....	60.00	50.00	35.00
Geranium, large pure white, orange-red cup.....	75.00	60.00	45.00
L'Innocence, white, soft orange cup, fine for pans.....	65.00	55.00	35.00
Scarlet Gem, primrose, deep orange cup.....	70.00	60.00	35.00

### DOUBLE VARIETIES

	Top Size	1st Size	2nd Size
Alba Plena Odorata, double pure white.....	70.00	60.00	45.00
Inglescombe, golden-yellow, extra.....	75.00	65.00	45.00
Texas, yellow and orange-red center.....	90.00	75.00	50.00
Twink, primrose-yellow, center bright orange.....	80.00	70.00	45.00

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### HYBRID TRIANDRUS

	Top Size
Triandrus Thalia, the best triandrus.....	\$105.00
Campenelli giganteus, deep yellow, extra.....	40.00
Campenelli plenus, double yellow.....	40.00
Jonquilla simplex, single, sweet scented.....	40.00
Jonquilla florepleno, double, sweet scented.....	40.00

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	Per 1000
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Short cup mixed.....	\$40.00
Trumpet mixed.....	40.00
Mixed, all types.....	40.00

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	Per 100	Per 1000
Holland-grown. Young heavy plants. 3 eyes and up.....		
Festiva Maxima, Early white.....	\$37.50	\$350.00
Felix Crousse, Late red.....	37.50	350.00
Karl Rosenfeld, Early red.....	37.50	350.00
Jules Elie, Early pink.....	37.50	350.00
Sarah Bernhardt.....	37.50	350.00

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Top size, \$13.50 per 100, \$125.00 per 1000.

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	Top Size	First Size	Second Size
Remembrance, light blue.....	\$28.00	\$22.00	\$18.00
The Bishop, dark purple.....	28.00	22.00	18.00
Snowstorm, pure white.....	35.00	30.00	24.00
Striped Beauty, striped.....	35.00	30.00	24.00
Mammoth Yellow, golden.....	45.00	38.00	32.00
Rainbow Mixture.....	33.00	28.00	24.00

### MISCELLANEOUS BULBS

	Top Size
Chionodoxa lucillae, clear blue.....	\$16.00
Fritillaria meleagris.....	20.00
Ixia, mixed.....	12.00
Muscari armeniacum, large clear blue, 8 cm., \$10.00; 10 cm., \$16.00.....	
Muscari album, pure white.....	22.00
Snowdrops, single.....	25.00
Scilla campanulata, alba max., white, 10 cm. and up.....	18.00
Scilla campanulata, Rosy Queen, pink, 10 cm. and up.....	18.00
Scilla campanulata, excelsior, blue, 10 cm. and up.....	18.00
Scilla campanulata, mixed.....	18.00
Scilla Spring Beauty, improved Scilla sibirica, 8 cm., \$20.00; 10 cm., \$26.00.....	

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# POTTED LINERS

	Per 100	Per 1000
<i>Taxus adamsi</i> —1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	\$16.00	\$150.00
<i>Taxus media andersoni</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Taxus media browni</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	18.00	160.00
2-yr., 2 1/4-in. rose pots, 6 to 10 ins.....	22.50	200.00
<i>Taxus baccata repandens</i>		
1-yr., 2 1/4-in. rose pots.....	22.50	.....
2-yr., 2 1/4-in. rose pots, 4 to 8 ins.....	25.00	.....
<i>Taxus cuspidata</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Taxus cuspidata capitata</i> (cutting grown)		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Taxus cuspidata vermeal</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	180.00
<i>Taxus media hatfieldi</i>		
1-yr., 2 1/4-in. pots, 4 to 6 ins.....	16.00	150.00
<i>Taxus media hatfieldi No. 18</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	180.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	25.00	225.00
<i>Taxus media hatfieldi No. 24</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	180.00
<i>Taxus media hicksi</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Taxus media hunnewelliana</i>		
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.....	25.00	.....
<i>Taxus intermedia</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 6 to 12 ins.....	22.50	200.00
<i>Taxus media kelseyi</i> —1-yr., 2 1/4-in. rose pots, 4 to 5 ins.....	20.00	180.00
<i>Taxus media Moon's columnaris</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 15 ins.....	22.50	200.00
<i>Taxus media thayerae</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Taxus media wellesleyana</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	.....
<i>Juniperus horizontalis plumosa</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 10 ins.....	20.00	180.00
<i>Juniperus Bar Harbor</i> —1-yr., 2 1/4-in. rose pots, 4 to 5 ins.....	20.00	180.00
<i>Juniperus communis depressa aurea</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	180.00
<i>Juniperus glauca hetzi</i> —1-yr., 2 1/4-in. rose pots, 6 to 8 ins.....	20.00	180.00
<i>Juniperus communis hibernica</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	25.00	225.00
<i>Juniperus chinensis pfitzeriana glauca</i> (Blue Pfitzer)		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	27.50	250.00
<i>Thuja occidentalis douglasii aurea</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
<i>Thuja occidentalis pyramidalis</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 8 to 12 ins.....	22.50	200.00
<i>Thuja occidentalis elegantissima</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	18.00	160.00
<i>Thuja occidentalis globosa</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
<i>Thuja occidentalis wareana</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
2-yr., 2 1/4-in. rose pots, 6 to 10 ins.....	22.50	200.00
<i>Thuja occidentalis woodwardii</i>		
1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	16.00	150.00
<i>Ilex crenata bullata</i> —1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	22.50	200.00
<i>Ilex crenata hetzi</i> —1-yr., 2 1/4-in. rose pots, 4 to 6 ins.....	22.50	200.00
<i>Ilex crenata rotundifolia</i> —1-yr., 2 1/2-in. rose pots, 5 to 8 ins.....	22.50	200.00
<i>Ilex crenata glabra</i> —1-yr., 2 1/4-in. rose pots.....	22.50	200.00

Partial list of our liners for fall, 1953, and spring, 1954.

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## HEASLEY'S NURSERIES

Freeport Rd.

BUTLER, PA.

plants. Because of the far-reaching, hard roots and few rootlets, it is impossible to dig an old plant with an adequate root system, and this makes observations based on collected material somewhat doubtful. Even in the nursery, we found that it was necessary to grow seedlings in pots if we were to have good results at planting-out time. The trouble, of course, is to get seeds, but by bothering collectors, such as Frank Rose, Claude Barr and Carl English, to gather seeds of all the kinds they come upon, one would soon be able to acquire a good collection of the false buckwheats. In the process, he would acquire a host of annuals and weeds, but occasionally he would come upon one like *Eriogonum ovalifolium*, a mat-maker with white woolly, oval leaves and little balls of sulphur-yellow flowers on 6 to 8-inch stems. In contrast to Gabrielson's report that "so far I have not had much success with it," we had one plant remain with us all of 15 years, and several lived 10 or more. On the other hand, *E. vineum* has consistently refused to come back, after suffering the ignominy of being rooted out of its mountain home and transplanted to an altitude of 500 feet above sea level. No wonder, though, for one collected plant that we received several years ago had gangling roots over four feet long, and that was only a part of what it had originally. Its flower color varies somewhat, though always in some shade of wine, as far as I know. These two plants are closely related, according to the botanical keys, but flower color alone divides them for garden purposes. Another mat-maker that I had from the mountains of Oregon and the Rockies is *E. umbellatum*. It lacks the wooliness of the former two, but has some wool underneath, and the flowers vary not a little in color and form. Most that I have had were pale yellow.

### Eriogonum Thymoides Pleases

A packet of seeds which came to us several years ago from the late Fred Borsch, marked *Eriogonum thymoides*, was one of the pleasant surprises of our eriogonum experience. It gave us several little rounded bushes about eight inches high clothed in tiny leaves. No two plants produced the same flower color, but all our plants had pinkish buds opening to some shade of yellow. Mr. Borsch told me later that wine color was frequently met in nature. If you want to do something worth while for American gardeners and something which will give you a





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Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	Weight Per 1000	Price Per 100	Price Per 1000
No. 0	5 1/4 ins.	5 ins.	6 ins.	200	210 lbs.	\$3.25	\$30.00
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	331 lbs.	4.50	42.50
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1-yr. seedlings, n.r.	\$ 6.00	\$ 40.00
<b>Berberis thunbergi</b> (green)		
2-yr. s., 12 to 15 ins.	9.00	75.00
2-yr. s., 15 to 18 ins.	15.00	125.00
<b>Berberis thunbergi</b> (Redleaf)		
2-yr. s., 12 to 15 ins.	15.00	125.00
2-yr. s., 15 to 18 ins.	25.00	200.00
<b>Hydrangea arborescens grandiflora</b>		
1-yr. c., field-grown, liners	7.50	50.00
2-yr. c., field-grown, 15 to 21 ins.	15.00	125.00
<b>Ligustrum ovalifolium</b>		
1-yr. R.C., field-grown	6.00	50.00
<b>Retinospora pisifera plumosa aurea</b>		
2-yr. c., transpl., field	25.00	200.00
<b>Taxus media brevifolia</b>		
1-yr. transpl.	17.50	150.00
2-yr. transpl.	25.00	225.00
<b>Taxus media brevifolia nana</b>		
1-yr., out of pots	17.50	150.00
2-yr., out of pots	25.00	....
<b>Taxus media hatfieldi</b>		
1-yr., transpl., field	15.00	125.00
2-yr., transpl., field	17.50	150.00
3-yr., transpl., field	30.00	....
<b>Thuja occidentalis verveaneana</b>		
2-yr. c., transpl., field	25.00	200.00
<b>Wistaria sinensis</b> (blue)		
1-yr. grafts, field-grown	26.00	....
2-yr. grafts, field-grown	40.00	....

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100,000 *Ilex crenata* and *convexa*, seedlings, cuttings, and transplants.  
20,000 *Azalea mollis*, transplants.  
25,000 *Taxus*, transplants.  
75,000 *Dogwood*, seedlings.  
4,000 *Pieris japonica*, transplants.

### FOR THE LOCAL TRADE ONLY

5,000 *Taxus*, B&B specimens.  
20,000 *Deciduous Azalea*, transplants, flats.

Ask for list. Inspection invited.

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(Hardy form of English Ivy)

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PEEKSKILL NURSERY SHRUB OAK, N. Y.

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**ORNAMENTAL NURSERY STOCK**  
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great deal of satisfaction, you can do so by obtaining seeds of this species and making selected plants available to the public.

It would probably be useless to devote more space to the kinds, but I should like to include one more, *E. compositum*, a tall grower from the near desert canyons of eastern Oregon and Washington and western Idaho. As I had it from Mr. Snowberger years and years ago, it made a shrubby growth to two feet in height, covered with large, heart-shaped, deciduous leaves. Its flower stems in summer carried up another foot, making a 3-foot bush, with large (six inches or more) umbels of cream-colored flowers.

All the kinds that I have grown, possibly with one exception, *E. piperi*, which did not live long enough for me to make sure, want an alkaline soil. All that I know laugh at dry weather, and with few exceptions (*E. thymoides*, for one), they bloom in summer—June, July and August—when color is needed.

### Campanula Glomerata

A western reader asks for a discussion of *Campanula glomerata*. When the letter came, I thought that the subject had been covered recently, but my homemade index does not show it, and a brief discussion therefore follows.

*Campanula glomerata* is perhaps the most variable of the bellflowers, occurring naturally in a number of forms varying in height from the three inches of variety *acaulis* through intermediate statures to the 18 inches to two feet of variety *dahurica*. Of all the forms that I have grown—I have apparently missed variety *speciosa* (not species *speciosa*), for I never had anything which approached the extra large flowers that form is reported to have—I believe that varieties *acaulis*, *alba* and *dahurica* are of greatest value to the neighborhood nurseryman.

The first, *acaulis*, has dense heads of deep, rich violet flowers on 3 to 4-inch stems from May until August. The second is white, as the name implies, and grows about a foot tall. *Dahurica* has lengthened its stems to 18 inches or more and has large heads of violet-purple flowers during June and July. In addition to having more than ordinary value as a garden plant, *dahurica* is especially good for cutting because its flowers are gathered into showy clusters, instead of being spread along the stem as is the case with so many bellflowers. Incidentally, it is a good field for selection of the better colors,



# FALL, 1953 — SPRING, 1954

## Seedlings, etc.

	Per 100	Per 1000
<i>Chamaecyparis obtusa</i> , 3-yr. sdgl., 6 to 12 ins.....	\$10.00	\$ 85.00
<i>Cornus kousa</i> , 1-yr. sdgl., 6 to 10 ins.....	10.00	85.00
<i>Crataegus cordata</i> , 1-yr. sdgl., 3 to 6 ins.....	5.00	45.00
<i>Euonymus alatus</i> , 2-yr. sdgl., 3 to 6 ins.....	7.50	65.00
<i>Euonymus alatus</i> , 2-yr. sdgl., 6 to 10 ins.....	9.00	85.00
<i>Ilex crenata</i> , 2-yr. sdgl., 3 to 6 ins.....	6.00	50.00
<i>Ilex crenata</i> , 3-yr. sdgl., 6 to 10 ins.....	8.00	75.00
<i>Ilex opaca</i> , 1-yr. sdgl., 2 to 4 ins.....	6.00	50.00
<i>Magnolia glauca</i> , 1-yr. sdgl., 2 to 4 ins.....	6.00	50.00
<i>Picea excelsa</i> , 3-yr. sdgl., 6 to 10 ins.....	7.00	65.00
<i>Picea pungens glauca</i> , 3-yr. sdgl., 4 to 8 ins.....	8.50	75.00
* <i>Pinus aristata</i> , 4-yr. sdgl., 4 to 6 ins.....	7.50	60.00
<i>Pinus mugo mughus</i> (True dwarf Tryolean); 2-yr. sdgl., 2 to 4 ins.....	5.00	45.00
<i>Pinus mugo mughus</i> , 3-yr. sdgl., 4 to 8 ins.....	7.50	65.00
<i>Pinus nigra austriaca</i> , 2-yr. sdgl., 3 to 6 ins.....	5.00	45.00
<i>Pinus nigra austriaca</i> , 3-yr. sdgl., 4 to 8 ins.....	6.50	60.00
* <i>Pinus strobus</i> , 2-yr. sdgl., 3 to 6 ins.....	5.00	45.00
<i>Pinus sylvestris</i> , 2-yr. sdgl., 4 to 8 ins.....	4.00	35.00
<i>Pinus sylvestris</i> , 3-yr. sdgl., 10 to 18 ins.....	6.00	50.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr. sdgl., 3 to 6 ins.....	6.00	50.00
<i>Sorbus aucuparia</i> , 1-yr. sdgl., 6 to 12 ins.....	6.00	50.00
<i>Sorbus aucuparia</i> , 2-yr. sdgl., 1 to 3 ft.....	12.50	100.00
<i>Syringa vulgaris</i> , 3-yr. sdgl., 10 to 18 ins.....	5.00	45.00
<i>Taxus cuspidata capitata</i> , 2-yr. sdgl., 3 to 6 ins.....	12.00	100.00
<i>Taxus cuspidata capitata</i> , 2-yr. transplants, 4 to 6 ins.....	16.50	150.00
<i>Thuja occidentalis</i> , 3-yr. sdgl., 4 to 8 ins.....	7.50	60.00
<i>Tsuga canadensis</i> , transplants, 6 to 8 ins.....	15.00	125.00
<i>Viburnum lantana</i> , 2-yr. sdgl., 3 to 6 ins.....	5.00	45.00
<i>Viburnum lantana</i> , 3-yr. sdgl., 4 to 8 ins.....	7.50	60.00

## Well-established cuttings from 2 1/4-in. pots.

	Per 10	Per 100
<i>Chamaecyparis filifera aurea</i> .....	\$ 2.25	\$ 17.50
<i>Euonymus carrierei</i> .....	2.25	17.50
<i>Euonymus vegetus</i> .....	2.25	17.50
<i>Ilex crenata bullata</i> .....	2.25	17.50
<i>Ilex crenata helleri</i> .....	2.25	17.50
<i>Ilex crenata microphylla</i> .....	2.25	17.50
<i>Ilex crenata rotundifolia</i> .....	2.25	17.50
<i>Ilex glabra</i> .....	2.25	17.50
<i>Juniperus glauca hetzi</i> .....	2.25	17.50
<i>Juniperus horizontalis Bar Harbor</i> .....	2.25	17.50
<i>Juniperus horizontalis glauca wilsoni</i> .....	2.25	17.50
<i>Juniperus pfitzeriana</i> .....	2.75	22.50
<i>Juniperus pfitzeriana nana</i> .....	2.75	22.50
<i>Juniperus suecica</i> .....	2.25	17.50
<i>Juniperus suecica nana</i> .....	2.25	17.50
<i>Taxus baccata repandens</i> .....	2.25	17.50
<i>Taxus cuspidata F &amp; F compacta</i> .....	2.25	17.50
<i>Taxus cuspidata nana</i> .....	2.25	17.50
<i>Taxus media browni</i> .....	2.25	17.50
<i>Taxus media clifforti</i> .....	2.25	17.50
<i>Taxus media Halloran</i> .....	2.25	17.50
<i>Taxus media henryi</i> .....	2.25	17.50
<i>Taxus media hicksi</i> .....	2.25	17.50
<i>Thuja occidentalis globosa Howe Type</i> .....	2.25	17.50
<i>Thuja occidentalis globosa nova</i> .....	2.25	17.50
<i>Thuja occidentalis nigra</i> .....	2.25	17.50

## Ericaceous plants from 2 1/4-in. pots.

<i>Azalea macronulata</i> .....	2.25	17.50
<i>Azalea mollis</i> .....	2.25	17.50
<i>Azalea schlippenbachii</i> .....	2.25	17.50
<i>Enkianthus campanulatus</i> .....	2.25	17.50

## Grafts

Grafts are normally ready for shipment after April 15th. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i> .....	\$ 7.50	\$ 65.00
<i>Acer palmatum dissectum atropurpureum</i> .....	7.50	65.00
<i>Cedrus atlantica glauca</i> .....	7.50	65.00
<i>Cornus florida alba plena</i> .....	4.00	50.00
<i>Cornus florida rubra</i> .....	4.00	50.00
<i>Cornus florida rubra Prosser</i> .....	7.50	65.00
<i>Cryptomeria lobbi compacta</i> .....	7.00	60.00
<i>Ilex opaca femina</i> .....	7.00	60.00
<i>Juniperus chinensis columnaris glauca</i> .....	6.00	50.00
<i>Juniperus chinensis columnaris viridis</i> .....	6.00	50.00
<i>Juniperus chinensis keteleeri</i> .....	6.00	50.00
<i>Juniperus chinensis neoborlensis</i> .....	6.00	50.00
<i>Juniperus chinensis sargentii</i> .....	6.00	50.00
<i>Juniperus chinensis sargentii glauca</i> .....	6.00	50.00
<i>Juniperus sabina Von Ehron</i> .....	6.00	50.00
<i>Juniperus squamata meyeri</i> .....	6.00	50.00
<i>Juniperus virginiana burkii</i> .....	6.00	50.00
<i>Juniperus virginiana canariensis</i> .....	6.00	50.00
<i>Juniperus virginiana elegantissima</i> .....	6.00	50.00
<i>Juniperus virginiana glauca</i> .....	6.00	50.00
<i>Juniperus virginiana kosteriana</i> .....	6.00	50.00
<i>Juniperus virginiana pyramidiformis hillii</i> .....	6.00	50.00
<i>Juniperus virginiana schottii</i> .....	6.00	50.00
<i>Magnolia lennei</i> .....	7.50	65.00
<i>Magnolia rustica rubra</i> .....	7.50	65.00
<i>Magnolia soulangeana</i> .....	7.00	60.00
<i>Magnolia soulangeana nigra</i> .....	7.00	60.00
<i>Magnolia stellata</i> .....	7.00	60.00
<i>Magnolia stellata rosea</i> .....	7.00	60.00
<i>Magnolia stellata rubra</i> .....	7.50	65.00
* <i>Pinus cembra</i> .....	6.50	55.00
<i>Thuja occidentalis douglasii spiralis</i> .....	5.00	40.00
<i>Thuja occidentalis elegantissima</i> .....	5.00	40.00
<i>Thuja occidentalis lutea Mary Corey</i> .....	5.00	40.00
<i>Thuja occidentalis lutea Geo. Peabody</i> .....	5.00	40.00
<i>Thuja occidentalis nigra</i> .....	5.00	40.00
<i>Thuja occidentalis pyramidalis</i> .....	5.00	40.00
<i>Thuja occidentalis rosenthalii</i> .....	5.00	40.00
<i>Thuja occidentalis wareana sibirica</i> .....	5.00	40.00
<i>Thuja orientalis aurea nana</i> .....	5.00	40.00
<i>Thuja orientalis conspicua</i> .....	5.00	40.00
<i>Thuja orientalis elegantissima</i> .....	5.00	40.00
<i>Tsuga canadensis pendula</i> .....	6.00	50.00

\*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, Nevada, New Mexico, South Carolina and Tennessee.

## 1-year grafts from 2 1/4-in. pots.

<i>Cedrus atlantica glauca</i> .....	8.50	80.00
<i>Cornus kousa chinensis</i> .....	7.00	60.00
<i>Cryptomeria lobbi compacta</i> .....	8.00	75.00
<i>Magnolia conspicua</i> .....	10.00	90.00
<i>Magnolia stellata Water Lily</i> .....	8.00	75.00
<i>Picea pungens kosteri</i> .....	15.00	125.00
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**Juniperus Pfitzeriana**  
**Viburnum Carlesi**

Two-year transplants in:

**Cotoneaster Divaricata**  
**Cotoneaster Horizontalis**  
**Cotoneaster Praecox**  
**Euonymus Vegetus**  
**Forsythia Spring Glory**  
(new)  
**Ilex Convexa** (cuttings)  
**Prunus Maritima**  
(Beach Plum)

One-year transplants in:

**Juniperus Hetzi**  
**Magnolia Soulangeana**  
(grown from cutting)  
**Regel Privet** (genuine)

Seedlings in:

**Prunus Maritima**  
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**Viburnum Carlesi**

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as its present predominant violet-purple color does not combine well with all colors and is objectionable to some folks.

Because all its forms come true from seeds, seedage is the usual method followed in its propagation.

### Iris Innominata

To answer a Massachusetts reader who asks if I think he can grow *Iris innominata* in his section, may I say that there is no apparent reason why he cannot. In fact, this species, which was described as being from the mountains of southern Oregon 25 years ago, holds much promise for gardeners in the east as a permanent garden plant. Unlike most western iris, which are reluctant to establish themselves in my section, especially if the material is collected stock, this species showed few finicky characteristics, none of which were insurmountable. Our inquirer should be warned, however, that it is most amiable when grown from seeds in the nursery, because collected plants do not often adjust themselves to the change. In our trials in northern Michigan about 20 years ago, it did best at the foot of a northward-facing wall, where it received half shade, and there produced abundantly its golden flowers above grassy foliage in early spring. It should be grown from seeds planted outdoors in autumn.

### Arenaria Stricta

It was like meeting a long lost friend when I went into an Ohio garden this spring and came upon *Arenaria stricta*, which I probably have not seen in 15 years. It is a native plant, occurring locally from New England to South Carolina and westward. When I looked it up just now in the floras, I noticed that some botanists put it in the genus *alsine*, but it is kept in *arenaria* in Gray's manual. In northern Michigan it is usually found growing in rocky, well-drained soil that is always moist, but our garden trials showed that it did even better when given a light, sandy soil.

Its bristle-like leaves form tufts of dark, shining green, which are ornamental throughout the year, and the plant is especially attractive during July and part of August, when it is carrying a multitude of small, white flowers. Seeds, divisions or cuttings are the usual means of propagation.

### Amorphas

Although we try to restrict the attention of this column to herbaceous plants, a few remarks on two little shrubby amorphas may not be

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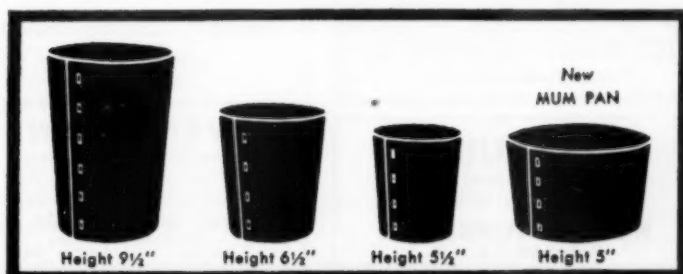
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out of place. Among the 15 or more species of *amorpha*, all of which are native to North America, there are a number of definite garden value. Of these, *A. nana*, because of its small stature alone, should make money for any grower catering to a rock garden clientele.

The plant, when seen at all in nurseries, is usually known as *A. microphylla*, the name formerly favored by the systematists. Now that they have turned to *nana*, it keeps a lot of us old-timers up in the air. Perhaps a few words along that line may help to clear readers' minds; or again, they may merely add confusion to an already confused situation.

### Botanists Reverse Themselves

According to available literature, *A. nana* is Nuttall's name for the *A. microphylla* of Pursh. As the latter is the older of the two names, the general rule of the botanists would be to retain it, which they did for years. Why they reversed themselves is one of the things that make a mere gardener, who tries to keep his names straight, tear his hair. But variety *humilis* of *A. fruticosa* (not even recognized in *Hortus*) has been given the varietal name *nana* by some horticulturists, further confusing the situation.

True *A. nana*, as it grew here, got about a foot tall, with glabrous leaves made up of tiny leaflets and usually with solitary spikes of purplish flowers. The other, *A. fruticosa nana* (if the botanists will allow us to use the name), is also a good garden plant. Its height of 18 inches is not too tall for rock garden use and also allows it to find a place in the border, where its lovely tomentose leaves, especially in their younger stages, will add a distinctive touch to almost any planting. *Amorpha*s grow readily from seeds and may also be propagated from cuttings of green wood under glass or from hardwood cuttings in autumn inserted in a protected frame outdoors.

BLUE ribbon for the best merchants' exhibit at the Gregg county (Texas) fair in October was awarded to Leonard M. Riggs Nursery & Landscape Co., Longview, Tex. It featured a patio and barbecue of California Rane-Bo Stone, a cement block material. The planting was done with St. Augustine grass, Burford holly, podocarpus, white dwarf chrysanthemums and banana trees. Though Mr. Riggs was on a buying trip in California, Mrs. Riggs was on hand to answer visitors' questions.

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# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## WINTER PLANTING EFFECTS

Many landscape men and home gardeners plant primarily to produce color schemes. My father had a similar idea in mind but approached it differently; his oft-repeated advice was "plant for the winter, summer will take care of itself." Just the other day an old-time customer quoted my father and expressed appreciation that that idea had motivated the planting of her property.

Planting for winter effects need not preclude color and other types of arrangements, nor does it mean that the planting must be stiffly evergreen. Yet you must think in terms of winter appearance to make the best of that type of planting. It can be done in all sections of the country although different climates must be treated differently. The tropics and subtropics do not enter into the discussion for obvious reasons.

Our own section, which, for want of a better name I call the upper south, is one of the easiest climates to work in when planting in this manner. It is possible to grow many desirable and colorful coniferous evergreens, including southern types like the deodar cedar, cryptomeria and cunninghamia, and the list of broad-leaved evergreens is extensive even without rhododendron and azalea. The broad-leaved evergreens, though, are much less stiff and much more graceful than the coniferous types.

The evergreens, however, must not be depended upon to give more than the background of winter green, although the tremendous variety in shades of green and the bronze green of winter add that much more interest.

It is obvious that midwinter cannot produce much in the way of flowers, yet ever here we are not without a few subjects. I will mention only casually plants like *Camellia sasanqua* and tea because they do not belong in the upper south. But plants like *Osmanthus ilicifolius*, which flowers in December, are hardy, as are such plants as jasmine (February flowering) and the several witch hazels, the pussy willows, the alders and the filberts.

The best sources of color in winter are, of course, winter colored foliage,

interesting seed pods and showy berries. By winter foliage color I am not referring to a change in color like the common fall color change of trees and shrubs. The nandina is the most notable but not the only example. Its leaves turn brilliant red in the fall and stay that way until spring, when they fall off. Other plants like the *Mahonia aquifolium* turn an attractive bronze until spring, and so do the abelias. Of course some plants turn an unattractive bronze in winter and these are not desirable.

It is in winter that berried plants are most notable, and the list of attractive ones is fortunately large. Not only are there nandinas, but also the immensely popular and now numerous varieties of holly that serve two

purposes in winter, viburnums, ligustrums, photinias, euonymus, hederas, shrub roses, dogwoods and pyracanthas. The use of attractive berried plants against a foil of soft green makes the most attractive of winter landscapes. While interesting seed pods and cones are not such prominent features in any landscape, they do add that much more interest to a garden.

While it may be an extreme case, I have been in an old boxwood garden on an unusually warm January or February day when, from the appearance of much of it, I had to stop and think or look at the few deciduous shade trees to realize it was still winter.

Farther north, where snow is on the ground for two or three months, it is hard to landscape for the winter, and if you offer to it is doubtful that the homeowner will be too much interested. Yet not only do the northerners have a wide variety of coniferous evergreens they can use and

## NORTHERN-GROWN STOCK

### LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>	\$4.00	\$35.00
18 to 24 ins.		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

### SUGAR MAPLES

	Unit price in quantities
	10 to 50 to 250
<i>Acer saccharum</i>	
1 1/4 to 1 1/2 in. cal.	\$ 4.00 \$ 3.50
1 1/2 to 1 3/4 in. cal.	6.00 5.00
1 3/4 to 2 in. cal.	7.00 6.00
2 to 2 1/4 in. cal.	9.00 8.00
2 1/4 to 3 in. cal.	12.00 10.00

### CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
5 to 6 ft.		
3 stems and up	\$ 30.00	
6 to 8 ft.		
3 stems and up	40.00	
<i>Gray Birch</i>		
4 to 6 ft.		
3 to 6 stems	20.00	\$150.00
6 to 8 ft.		
3 to 6 stems	35.00	250.00

All stock is first-quality collected material except as otherwise noted. See the September 15 issue, pages 16, 17 and 18 for complete wholesale list for Fall, 1953, and Spring, 1954, of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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Prices quoted are the lowest possible wholesale prices for our top-quality merchandise and are figured per 1000 bulbs (100 of 1 variety at 1000 rate). We pledge ourselves to fill your esteemed orders with the utmost care.

## The Best is Always the Cheapest

(and the Cheapest is Never the Best)

### TULIPS

	Top Size	1st Size
<b>DARWIN:</b>		
All Bright, Brilliant red.....	\$38.00	\$34.00
Aristocrat, Deep rose.....	58.00	53.00
Bartigon, Crimson-scarlet.....	38.00	34.00
Campfire, Blood-red.....	39.00	35.00
Chas. Needham, Scarlet-red.....	50.00	45.00
Demeter, Violet-blue.....	60.00	54.00
Eclipse, Crimson-red.....	50.00	45.00
Furncombe Sanders, Brilliant scarlet.....	38.00	34.00
Golden Age, Golden-yellow.....	54.00	50.00
Insurpassable, Lavender.....	48.00	44.00
La Tulipe Noire, The Black Tulip.....	40.00	36.00
Philip Snowden, Carmine rose.....	38.00	34.00
Princess Elizabeth, Deep rose.....	40.00	36.00
Prunus, Salmon-pink.....	40.00	36.00
Red Pitt, Bright red.....	40.00	36.00
The Bishop, Violet-blue.....	52.00	46.00
Wm. Copland, Lavender.....	38.00	34.00
Wm. Pitt, Fine red.....	38.00	34.00
Cordell Hull, Blood-red and white stripes.....	48.00	44.00
Montgomery, White edged red.....	55.00	50.00
Rainbow Mixture.....	38.00	34.00
<b>COTTAGE:</b>		
Advance, Scarlet-orange.....	54.00	50.00
Albino, Pure white.....	48.00	44.00
Carrara, Pure white.....	40.00	36.00
Golden Harvest, Pure yellow.....	38.00	34.00
Mothers Day, Pale yellow.....	38.00	34.00
Mrs. John Scheepers, Golden-yellow.....	48.00	44.00
Ossi Oswald, White with red spots.....	42.00	38.00
Princess Margaret Rose, Red and yellow.....	38.00	34.00
<b>LILY-FLOWERING:</b>		
Alaska, Deep yellow.....	50.00	46.00
Picotee, White with pink edge.....	55.00	50.00
Stanislaus, Flaming red, edged yellow.....	50.00	46.00
The Bride, Pure white.....	55.00	50.00
<b>TRIUMPH:</b>		
Alberio, Red with orange margin.....	\$38.00	\$34.00
Bandoeng, Mahogany edged golden.....	38.00	34.00
Crater, Deep crimson.....	44.00	40.00
Crown Imperial, Brown edged yellow.....	40.00	36.00
Denbola, Red, creamy bordered.....	65.00	60.00
Edith Eddy, Red, white edged.....	40.00	36.00
Elmus, Scarlet edged creamy white.....	48.00	44.00
Kansas, Pure white.....	38.00	34.00
Nivea, White.....	50.00	45.00
Princess Beatrix, Scarlet edged yellow.....	50.00	45.00
Red Giant, Scarlet.....	65.00	60.00
Rhineland, Red, edged yellow.....	40.00	36.00
Rose Beauty, Deep rose.....	48.00	44.00
Telescopium, Pink-lavender.....	40.00	36.00
Ursa Minor, Yellow.....	50.00	45.00
Rainbow Mixture.....	40.00	36.00
<b>PARROT:</b>		
Blue Parrot, Blue.....	40.00	36.00
Fantasy, Pink with green stripes.....	42.00	38.00
Red Champion, Fiery red.....	60.00	55.00
Sunshine, Golden-yellow.....	52.00	46.00
Theresa, Cherry-red.....	46.00	42.00
Rainbow Mixture.....	45.00	38.00
<b>SINGLE EARLY:</b>		
Couleur Cardinal, Scarlet.....	50.00	46.00
General De Wet, Pure orange.....	42.00	38.00
Crown Imperial, Brown, edged yellow.....	40.00	36.00
Keizerskroon, Red with yellow.....	58.00	54.00
Prince Carnaval, Red, striped yellow.....	60.00	56.00
<b>MENDEL:</b>		
Athlete, Pure white.....	38.00	34.00
Her Grace, White, edged rose.....	48.00	42.00
Van der Eerden, Cherry-red.....	40.00	36.00
White Sail, Creamy white.....	40.00	36.00

## DAFFODILS

### TRUMPET:

	D.N. No. 1	D.N. No. 2
Insurpassable, Golden-yellow.....	\$100.00	85.00
Golden Harvest, Large golden-yellow.....	95.00	80.00
King Alfred, Golden-yellow.....	85.00	70.00
Mrs. Krelage, White.....	85.00	75.00
Rembrandt, Deep golden-yellow.....	85.00	70.00

### DOUBLE:

Texas, Pale yellow with orange-red.....	90.00	75.00
Inglescombe, Golden-yellow.....	75.00	65.00

### LARGE CUP:

Fortune, Yellow with deep orange crown.....	95.00	80.00
---	-------	-------

### POETAZ:

Geranium, Large pure white, orange-red cup.....	75.00	60.00
Cheerfulness, Double white poetaz.....	60.00	50.00

### TRIANDRUS:

Thalia, Best triandrus, pure white.....	100.00	85.00
---	--------	-------

All other varieties, prices upon request.

## HYACINTHS

### RED and PINK:

Gertrude.....	Rosy pink
Marconi.....	Deep pink
Pink Pearl.....	Rose
Queen of the Pinks.....	Pink (late)

### WHITE:

Carnegie.....	White
L'Innocence.....	Pure white

### Price per 1000:

Topsize (18-19) .....	\$125.00
First size (17-18) .....	105.00

### BLUE:

Bismarck.....	Medium blue
King of the Blues.....	Dark blue
Myosotis.....	Light blue
Ostara.....	Porcelain blue

### YELLOW:

City of Haarlem.....	Pure yellow
----------------------	-------------

### Second size (16-17) .....

Bedding size (15-16) .....	\$90.00
Miniatures (14-15) .....	75.00

**TERMS:** All prices are F.O.B. Waldwick, N. J., including all charges. 2%, 10 days; 30 days net for those with established credit.

All varieties not listed also available.

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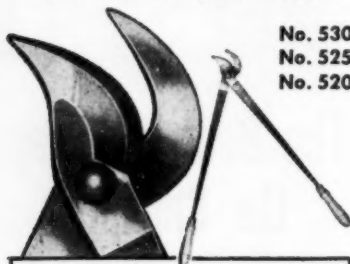
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3 SIZES: 30" (\$5.75)  
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No. 11 (Pruner Head only) \$4.20  
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\$3.50 \$4.00

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No. 514 14" blade \$2.75

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some variety of berry-bearing plants, but they also have a nice selection of deciduous plants with interestingly colored bark, twigs and plant character, not to overlook their opportunity to plant beautiful birch clumps, for which I sometimes think my upper south customers would forfeit a good many broad-leaved evergreens.

So during the next planting jobs you do keep somewhere in the back of your mind that thought, "Plant for the winter and the summer will take care of itself," and see what good influence it has on your plantings.

### ORNAMENTALS AS TIMBER

Last year in these columns I bemoaned the seeming lack of consideration given by the nursery industry to reforestation and, as a result, received more letters in comment than I received from any other article I have written. So I assume quite a few persons agree with me. I will not repeat the remarks made at that time, but I thought another article on the value as timber of the ornamentals we grow might be helpful. The ornamental grower is too apt to look on the lumberman as a despoiler of nature, in particular of beautiful trees, and a lumberman is apt to look upon a tree as so many board feet of lumber. Yet, in reality, our respective industries could be complementary and might be considered interdependent.

As nurserymen we do not look upon the trees we grow as potential lumber, yet we can, and trees being a replaceable resource, the idea should not arouse the indignation it does. Many of the plants we grow for ornament are of great economic importance as fine woods and, while we are all aware of the commonplace items like oak, walnut, Douglas fir and white pine, few are aware, unless they are wood technologists, of the economic importance of many others.

Besides the aforementioned common trees that we grow as ornamentals, the following are also available for their woods: Sugar maple, loblolly pine, longleaf pine, chestnut, American arborvitae (called white cedar), cherry, poplar, redwood, red cedar, beech, birch, bald cypress, fir, spruce and others.

Many of the exotics we grow are important timber trees in their native lands. The outstanding example is the cedar of Lebanon, famed in the Bible and in history as being the prin-

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Twice Transplanted—Regularly Sheared.  
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Terms: Cash, B&B at the nursery.

1500	<i>Berberis thunbergii atropurpurea</i> , 15 to 18 ins.	Each \$0.35
150	<i>Juniperus excelsa stricta</i> , 18 to 24 ins.	2.75
400	<i>Retinospora plumosa aurea</i> , 18 to 24 ins.	2.25
500	<i>Retinospora squarosa veitchii</i> , 18 to 24 ins.	2.00
675	<i>Taxus cuspidata</i> , 15 to 18 ins.	3.50
1125	<i>Taxus cuspidata intermedia</i> , 15 to 18 ins.	3.50
1800	<i>Taxus media hatfieldii</i> , 18 to 24 ins.	3.00
1000	<i>Taxus media hicksii</i> , 18 to 24 ins.	3.00
1000	<i>Thuja occidentalis elegantissima</i> , 24 to 30 ins.	2.00
700	<i>Thuja occidentalis globosa</i> , 15 to 18 ins.	2.00
2500	<i>Thuja occidentalis pyramidalis</i> , 24 to 30 ins.	2.00

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1 1/2 to 2 ins.	\$ 8.25	\$14.85
2 to 2 1/2 ins.	12.10	20.90
2 1/2 to 3 ins.	16.50	30.25
3 to 3 1/2 ins.	22.00	41.80

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With PATENTED rosebushes increasing each year in tremendous consumer popularity, the nurseryman that presents his customers with a top varied selection is going to CASH IN on the growing demand! As one of the oldest and largest growers of PATENTED ROSEBUSHES in the south, we bring you one of the largest selections in the country to choose from. PLACE YOUR PATENTED ROSE ORDER NOW for fall. The plants listed below are dug fresh from our fields and tied 10 to a bundle of the same variety . . . so make your orders in multiples of 10.

VARIETY	COLOR	PAT. NO.	SUG. RETAIL
<b>1954 ALL-AMERICA WINNERS</b>			
Lilibet .....	Pink	PAF	\$2.50
Mojave .....	Salmon	PAF	3.00
<b>HYBRID TEAS</b>			
Babe Ruth .....	Copper	996	2.00
Blanche Mallerin .....	White	594	2.00
Capistrano .....	Pink	922	2.25
Charles Mallerin .....	Red	933	2.50
Charlotte Armstrong .....	Cerise	455	2.25
Chrysler Imperial .....	Red	1167	2.75
Chief Seattle .....	Apricot	1030	2.50
Crimson Glory .....	Crimson	105	1.75
Diamond Jubilee .....	Yellow	824	2.00
Eclipse .....	Yellow	172	1.75
Enchantment .....	Peach	737	2.00
Forty-Niner .....	Red-Yellow	792	2.50
Fred Howard .....	Yellow	1006	2.50
Golden Scepter .....	Yellow	910	2.00
Happiness .....	Red	911	2.50
Helen Traubel .....	Pink	1028	2.75
Katherine T. Marshall .....	Pink	607	1.75
Lowell Thomas .....	Lemon	595	2.00
Mary Margaret McBride .....	Pink	537	1.75
McGredy's Sunset .....	Yellow	315	1.75
Mirandy .....	Red	632	2.25
Mission Bells .....	Pink	923	2.25
New Yorker .....	Red	823	2.00
Nocturne .....	Red	713	2.00

### HYBRID TEAS—Continued

VARIETY	COLOR	PAT. NO.	SUG. RETAIL
Opera .....	Red	1017	\$2.00
Peace .....	Yellow-Pink	591	2.50
Rex Anderson .....	White	335	1.75
Rose of Freedom .....	Red	791	2.00
Rubaiyat .....	Red	758	2.25
Sutter's Gold .....	Yellow-Red	885	2.25
Suzon Lotthe .....	Pink	934	2.50
Symphony .....	Pink	958	2.50
Tallyho .....	Pink	828	2.00
Tawny Gold .....	Gold	950	2.25
Texas Centennial .....	Red	162	1.50
Valiant .....	Red	914	1.75
Volcano .....	Red	951	2.00
White Briarcliff .....	White	108	1.75
Zulu Queen .....	Maroon	363	2.50

### CLIMBERS

Aloha .....	Coral-Pink	948	2.50
Cl. Charlotte Armstrong .....	Red	523	3.50
Cl. Crimson Glory .....	Crimson	736	2.50
Cl. Floradora .....	Red	1054	2.00
Cl. Peace .....	Yellow-Pink	932	2.50
Cl. Summer Snow .....	White	400	2.00
Dr. J. H. Nicolas .....	Pink	457	2.00
King Midas .....	Yellow	586	2.00

### FLORIBUNDAS

Betty Prior .....	Pink	340	1.50
Carrousel .....	Red	1066	2.00
Chatter .....	Red	739	1.50
Donald Prior .....	Red	377	1.50
Fashion .....	Pink	789	2.00
Geranium Red .....	Red	811	1.75
Goldilocks .....	Yellow	672	1.50
Lavender Pinocchio .....	Lavender	947	2.00
Ma Perkins .....	Pink	1143	2.25
Pinocchio .....	Pink	484	1.50
Red Pinocchio .....	Red	812	1.50
Summer Snow .....	White	416	1.50
Vogue .....	Cherry	926	2.00
White Pinocchio .....	White	1010	1.50
Yellow Pinocchio .....	Yellow	992	1.50

### WHOLESALE PRICES

Sug. Retail	10-19	20-99	100-249	250 Up
\$3.50	\$1.95	\$1.75	\$1.60	\$1.50
3.00	1.80	1.50	1.40	1.30
2.75	1.50	1.37 $\frac{1}{2}$	1.30	1.20
2.50	1.40	1.25	1.20	1.10
2.25	1.25	1.12 $\frac{1}{2}$	1.05	.95
2.00	1.10	1.00	.95	.85
1.75	1.00	.87 $\frac{1}{2}$	.80	.75
1.50	.90	.75	.70	.65

TERMS: Net 30 days. If credit is not established, orders will be shipped C. O. D.

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In our 500 acres of nurseries, we have one of the nation's largest available supplies of big specimen material. You will find an extensive selection of trees and shrubs of all types and varieties. And we have the equipment and experience

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- ◆ TAXUS REPANDENS
- ◆ TAXUS CUSPIDATA
- ◆ HYBRID RHODODENDRON

- ◆ OXYDENDRUM
- ◆ ILEX BUXIFOLIA
- ◆ ILEX OPACA

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Per 100

American Holly  
6 to 12 ins., transplants..... \$27.50

Viburnum Carlesi  
4 to 8 ins., transplants..... 35.00

Pink-flowering Dogwood  
10 to 15 ins., bedded grafts... 75.00

Send for new fall list.

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Directory of *The Arboretums and Botanical Gardens of North America*, by Dr. Donald Wyman. (Reprinted from *Chronica Botanica*, Vol. X, July 1947.) Published by American Association of Botanical Gardens and Arboretums. Price \$1.50. Available from: C. W. Fenninger, Secty.-Treas., 1632 Chestnut St., Philadelphia 3, Pa.

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ciple timber tree of the Near East and our early civilization. The beautiful evergreen shrub we grow as boxwood takes its name from the extremely hard and durable wood that is so useful in making choice, small objects. The wood also is used in making finely calibrated measuring rules, scales and instruments. Fine sets of chessmen are often made of boxwood. The wood of our own beautiful American holly is perhaps the whitest wood there is and is often used for fine inlays in choice furniture.

All of us have probably heard of the feudal law in England requiring each freeman to grow a yew tree in his yard enclosure. Yew wood was needed for bows and, because it was poisonous to sheep, it could not be grown without protection. Today, if we still needed bows, we could obtain still better wood for that purpose from Osage orange, which was so widely planted as stock fences about 50 years ago.

Visitors to Japan have told me that the beautiful cryptomeria so popular here in the middle Atlantic states is the principle forest tree of Japan.

Incidentally, in finding material for this article, one of the odd bits of information I came across is that ebony is a tropical form of persimmon.

Some of our common American trees have special uses. Lumbermen, for instance, often pay high prices for big boles of old silver poplar. These make unusually attractive curly grained veneers for use in furniture. We have a brick house about 120 years old, and when it was remodeled the electrician ruined a number of bits on the joists, which proved to be sweet gum, one of the toughest of woods.

I have already mentioned in these columns how eager the lumber industry is to find a substitute chestnut that will supply both timber and tannic acid to take the place of the old American chestnut.

The supply of timber and wood products for large concerns directly interested in them is no longer a haphazard operation. Many of these companies own and develop their own sources of supply. Large paper companies and even our famous magazines have their own, as do large furniture and plywood firms as well. A much greater knowledge of what is going on in this direction certainly cannot hurt us and really should interest us. It is my feeling that there is a market there for the nursery industry that may develop and surprise us.

E. S. H.

# FIELD-GROWN NURSERY STOCK—FALL, 1953

	100 rate Each
<b>Azalea ghent (pontica), beds, 2-yr., XX</b>	<b>\$0.25</b>
5 to 8 ins., 3-yr., XX, field	.45
8 to 10 ins., 4-yr., XX, field	.65
10 to 12 ins., 4-yr., XX, field	1.00
12 to 15 ins., 4-yr., XX, field	1.35
<b>Azalea kaempferi,</b>	
beds, 2-yr., X	.25
<b>Azalea mollis, beds, 2-yr., X</b>	<b>.18</b>
5 to 10 ins., 2-yr., X	.25
8 to 10 ins., 3-yr., X, br.	.45
10 to 12 ins., 4-yr., XX, br.	.65
12 to 15 ins., 5-yr., XX, br.	1.35
<b>Azalea poukhanensis, beds, 2-yr., X</b>	<b>.25</b>
<b>Azalea schlippenbachii, beds, 2-yr., X</b>	<b>.28</b>
<b>Buxus sempervirens welleri,</b>	
1-yr., X	.25
5 to 10 ins., 2-yr., X	.45
<b>Chamaecyparis lawsoniana alumi,</b>	
6 to 10 ins., 1-yr., X	.28
10 to 12 ins., 2-yr., X	.35
12 to 15 ins., 3-yr., XX	.45
15 to 18 ins., 3-yr., XX	.55
<b>Chamaecyparis plumosa aurea,</b>	
5 to 8 ins., 2-yr., X	.35
8 to 10 ins., 3-yr., XX	.45
10 to 15 ins., 4-yr., XX	.55
<b>Euonymus alatus,</b>	
6 to 10 ins., 3-yr., X	.30
10 to 15 ins., 3-yr., X	.40
<b>Euonymus carrierei,</b>	
8 to 10 ins., 2-yr., X	.25
10 to 15 ins., 3-yr., X	.35
<b>Euonymus europaeus,</b>	
10 to 15 ins., 2-yr., X	.25
<b>Euonymus fortunei coloratus,</b>	
8 to 12 ins., 1-yr., X	.25
<b>Euonymus fortunei erecta,</b>	
12 to 18 ins., 3-yr., X	.35
<b>Euonymus patens,</b>	
10 to 15 ins., 3-yr., X	.55
<b>Euonymus vegetus,</b>	
8 to 10 ins., 2-yr., X	.25
10 to 12 ins., 3-yr., X	.35
12 to 15 ins., 3-yr., X	.45
<b>Hex erenata convexa (Bullata),</b>	
5 to 8 ins., 2-yr., X	.30
<b>Hex erenata helleri, beds, 1-yr.</b>	<b>.30</b>
<b>Hex rotundifolia,</b>	
4 to 6 ins., 1-yr., X	.35
6 to 8 ins., 2-yr., X	.35
8 to 12 ins., 3-yr., X	.45
12 to 15 ins., 3-yr., X	.75
<b>Juniper, Andorra,</b>	
8 to 10 ins., 2-yr., X	.35
10 to 12 ins., 3-yr., X	.45

	100 rate Each
<b>Juniperus glauca hetzi,</b>	
10 to 12 ins., 2-yr., X	\$0.35
12 to 15 ins., 3-yr., X	.55
15 to 18 ins., 4-yr., X	.70
<b>Juniper, Golden Pfitzer,</b>	
6 to 8 ins., 2-yr., X	.35
8 to 10 ins., 3-yr., XX	.45
<b>Juniper, Irish,</b>	
8 to 13 ins., 2-yr., X	.35
12 to 15 ins., 3-yr., X	.45
15 to 18 ins., 4-yr., XX	.55
<b>Juniperus pfitzeriana compacta</b>	
(Nelson Blue),	
beds, 1-yr., X	.25
6 to 8 ins., 2-yr., X	.35
<b>Koeleruteria paniculata</b>	
(Golden-rain Tree),	
2-yr., X	.12
8 to 12 ins., 3-yr., X	.18
12 to 18 ins., 4-yr., X	.22
<b>Laburnum vulgare</b>	
(Golden Chain Tree),	
2-yr., X	.12
<b>Larix europaea (European Larch),</b>	
6 to 10 ins., 2-yr., X	.10
10 to 13 ins., 3-yr., X	.18
<b>Larix leptolepis (Jap. Larch),</b>	
10 to 18 ins., 3-yr., X	.18
<b>Pachysandra terminalis, 2-yr., X</b>	<b>.12</b>
<b>Picea excelsa (Norway Spruce),</b>	
4 to 8 ins., 2-yr., X	.10
8 to 13 ins., 4-yr., XX	.15
<b>Picea pungens glauca</b>	
(Colorado Spruce),	
4 to 6 ins., 3-yr., X	.15
5 to 10 ins., 4-yr., X	.20
<b>Philadelphus virginialis,</b>	
2 to 3 ft., 3-yr., X	.45
<b>Pieris japonica,</b>	
beds, 2-yr., X	.25
5 to 8 ins., 3-yr., X, field	.45
8 to 12 ins., 4-yr., X, field	.65
<b>Pinus mugho,</b>	
4 to 6 ins., 2-yr., X	.16
5 to 8 ins., 4-yr., X	.20
<b>Pyracantha coccinea lalandi,</b>	
6 to 12 ins., 2-yr., X	.25
<b>Rhododendron catawbiense,</b>	
2-yr., X, field beds	.25
3 to 8 ins., 3-yr., XX	.35
5 to 8 ins., 3-yr., XX	.55
8 to 10 ins., 4-yr., XX	.85
10 to 15 ins., 4-yr., XX	1.00

	100 rate Each
<b>Rhododendron hybrid,</b>	
2-yr., X, field beds	\$0.35
5 to 8 ins., 3-yr., XX	.55
8 to 10 ins., 4-yr., XX	.85
10 to 12 ins., 4-yr., XX	1.00
<b>Rhus cotinus (Smoke Tree),</b>	
4 to 8 ins., 2-yr., X	.10
8 to 12 ins., 3-yr., X	.15
<b>Taxus cuspidata,</b>	
8 to 10 ins., 2-yr., X	.35
10 to 15 ins., 3-yr., X	.45
<b>Taxus media hicksii,</b>	
6 to 8 ins., 1-yr., X	.28
8 to 10 ins., 2-yr., X	.35
10 to 12 ins., 3-yr., X	.45
<b>Thuja occidentalis</b>	
(American Arb.),	
10 to 12 ins., 3-yr., X	.25
12 to 15 ins., 3-yr., XX	.35
15 to 18 ins., 3-yr., XX	.45
<b>Thuja occ. douglasii aurea</b>	
(Golden Arb.),	
4 to 6 ins., 1-yr., X	.25
6 to 8 ins., 2-yr., X	.35
<b>Thuja occ. elegantissima lutea</b>	
(Geo. Peabody Arb.),	
4 to 6 ins., 1-yr., X	.25
6 to 8 ins., 2-yr., X	.30
8 to 10 ins., 3-yr., X	.35
10 to 15 ins., 4-yr., XX	.45
<b>Thuja occ. globosa (Globe Arb.),</b>	
6 to 8 ins., 1-yr., X	.25
8 to 10 ins., 2-yr., X	.35
10 to 15 ins., 3-yr., X	.45
<b>Thuja occ. pyramidalis</b>	
(Pyramidal Arb.),	
6 to 8 ins., 1-yr., X	.30
8 to 10 ins., 2-yr., X	.35
10 to 15 ins., 3-yr., XX	.45
15 to 18 ins., 4-yr., XX	.55
<b>Tsuga canadensis (Hemlock),</b>	
6 to 8 ins., 3-yr., X	.25
<b>Viburnum opulus (Highbush</b>	
<b>Cranberry),</b>	
8 to 10 ins., 1-yr., X	.08
10 to 15 ins., 2-yr., X	.12
18 to 24 ins., 3-yr., X	.18
<b>Viburnum opulus nana</b>	
(Dwarf form),	
2-yr., X, field beds	.22

(31 mi. north of Pittsburgh, Pa., on Rt. 19)  
Phone: Zelienople 789 (or 644 evenings)  
R. D. I. HARMONY, PA.

## PALLACK BROS. NURSERIES, INC.

(We are not open Sundays.)

### PINES FOR WASTELAND

Christmas trees are an ideal crop to grow on eroded slopes and in abandoned fields, according to R. Brooks Polk, of the University of Missouri forestry department. The forestry department has produced some excellent crops of Scotch pine Christmas trees, and it is on the basis of this experience that Mr. Polk makes the following recommendations:

Use 2-year-old Scotch pine seedlings; there are special Christmas tree forms available that produce straight and symmetrical trees of good needle color. Scotch pine survives and grows best on well-drained soil and in full sunlight.

Trees should be planted to obtain a good spread and depth of root system, with the root collar at or slightly below ground level. Scotch pine grows slowly until the third season following planting. During the first two years the plantings should be watched to prevent competition of

grasses and weeds from developing. However, late summer cultivation has proved harmful in that it leaves the soil bare during the winter and increases frost heaving. A light mulch may be helpful, particularly on heavy, wet soil.

A high fertility level is not required in producing pines. In fact, fertilization during the period of seedling establishment is usually harmful in that it encourages weed growth. After the first two growing seasons, pine growth is often too fast rather than too slow, necessitating an annual pruning in order to increase compactness of crown. However, if foliage color is poor, fertilizing during the growing season that precedes harvest may be beneficial.

Annual prunings are necessary to obtain high yields from Christmas tree plantings. Do this job in late spring or early summer, before full development of young needles. A vigorous leader should be cut back to hold growth in height to 12 to 15 inches for any one year.

### ANSWERING YOUR QUESTIONS about WILT-PRUF

#### QUESTION:

## HOW DOES WILT-PRUF IMPROVE THE SALABILITY OF FOLIAGE PLANTS?

#### ANSWER:

WILT-PRUF should be used on tender foliage plants such as philodendrons, caladiums, begonias, camellias, dracaenas, various ferns, etc., to offset transplanting shock, drying out in shipment or retail handling. The very slight, colorless gloss of WILT-PRUF increases the attractiveness of many varieties of foliage plants in retail trade.

For additional information, write Dept. 1.



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PRODUCTS, Inc.** Eastview, N. Y.

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and 30 other fragrant  
**SUB-ZERO**

## HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

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Yellow and Orange Climbers  
Write for trade prices to

**BROWNELL ROSES** LITTLE COMPTON, R. I.

## MALONEY BROS. NURSERY CO., INC.

GROWERS OF  
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FRUIT TREES,  
SHRUBS, ORNAMENTAL  
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*Write for wholesale price list.*

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- Lining-Out Stock
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MALLOWS  
BROAD-LEAVED EVERGREENS  
EASTERN SHORE NURSERIES, INC.  
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Our fall, 1953, price list is now ready for distribution. If your name is not on our mailing list, send post card for copy.

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DRESHER, PENNA.

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Rhododendron — Kalmia  
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Complete line of Nursery Stock—  
Evergreen Seedlings and Transplants, Hardwood Seedlings, Fruit, Shade and Vireo Trees, Roses, Berries, Shrubs and Rhododendrons.

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Indiana, Pa.



## AMERICAN NURSERYMAN

### COVER ILLUSTRATION

#### Abies Koreana

One of the little-known and little-used firs is the Korean fir, *Abies koreana*. While it has been known in this country for some time, it has never gained much popularity. It is a medium-size tree, reaching a height of about 50 feet at maturity. My observations indicate that it is a relatively slow grower.

The Korean fir is relatively narrow in its habit of growth, with horizontal, spreading branches turned slightly upward at the ends. The cover picture shows the typical habit of growth. The young twigs are slightly hairy, becoming glabrous and yellowish-purple in color. The buds are slightly resinous.

*Abies koreana* is a native of Korea and was introduced into the United States in 1908. The generic name, *Abies*, comes from the ancient Latin name, *A-bies*, and the specific name, *koreana*, refers to the native habitat of the plant.

The leaves are short, less than an inch long. They are rounded or emarginate at the apex, dark green above and with white bands below.

Little is known relative to the adaptability of this species of fir to soil and environmental conditions. It is doing well at the Sequest Arboretum, at Wooster, O., and presumably has much the same requirements as the other firs—it should have a good soil which is retentive of moisture and a cool atmosphere. Plants will benefit by being mulched soon after planting. This species is hardy in zone 5 of Rehder.

This species of fir is worthy of more extensive trials as a small to medium-size evergreen tree for lawn planting.  
L. C. C.

#### ROSE REFERENCE GARDEN

A "reference garden" of old-fashioned roses has been established at Medina, O., by the American Rose Society, which will make it possible for growers to identify old rose varieties whose names have been lost. Varieties which go back several centuries in rose history are included in the collection.

Recently, budwood from the famous Tenner collection of hybrid perpetuals was secured to establish a correctly labeled collection of these fine roses.

Requests for identification of old-fashioned roses should be addressed to Roy E. Sheppard, Route 1, Medina, O.



## *Announcing to All Trade Friends*

# A. N. PIERSON, INC., CROMWELL, CONN.

has purchased the full securities of The Prospect Nurseries, Cromwell, Conn., which will continue to operate as such under the management of A. N. Pierson, Inc., Nursery Department, Evergreen Road, Cromwell. Art Webster, Nursery Superintendent (Phone: Middletown Ex. 7-2511) will welcome a continuance of your trust and confidence.

*Represented by E. D. Robinson, Sales Agent,*

*38 S. Elm St., Wallingford, Conn.*

*Phone 9-5672*

# A. N. PIERSON, INC., CROMWELL, CONN.

### BRECK'S EXPANDS

Luther A. Breck, Jr., president of Joseph Breck & Sons Corp., Boston, Mass., has announced one of the largest mergers in the recent history of the horticultural industry with the expansion of Joseph Breck & Sons (Breck's of Boston) through the purchase of the Peter Henderson, Stumpp & Walter Co., of New York. Combined sales of the two companies in 1954 are expected to exceed \$8,000,000.

The merger of these friendly rivals of over 100 years now places the nationally known seed houses under one management, and brings together some of the leading horticulturists of the nation.

Breck's, established in 1818, is the oldest seed house in America remaining in the same family. Peter Henderson's was founded in 1847, and Stumpp & Walter, in 1897, making a total of 298 years of garden experience for the three companies.

The six retail stores of the Peter Henderson, Stumpp & Walter Co. are located in greater New York. Temporary headquarters for Peter Henderson, Stumpp & Walter will be at Millburn, N. J., at the present garden center on the Morris turnpike.

Lawrence Palmeter will continue

as general manager, assisted by Stuart Block and the present staff, all of whom will work in cooperation with James Shiels, Breck's vice-president in charge of horticulture.

Plans are under way to expand Breck's catalog mailings for the Peter Henderson, Stumpp & Walter division, offering customers Breck's line of gifts and housewares as well as seeds, bulbs and garden supplies.

Already a leading purchaser of Holland bulbs, Breck's will offer this line through the six Peter Henderson, Stumpp & Walter stores. The new purchasing combination will place Breck's among the country's largest importers of tulips, daffodils and other fall planting bulbs.

There will be a wider variety of plant materials available at all retail stores and garden shops, because of the greater resources of both companies and the combined buying experience.

Innovations in the packaging of seeds are already under way at Breck's and a complete repackaging of flower and vegetable seeds is being planned. New styling and more color has been added to the 1954 season's packages, and new methods of keeping seeds in condition until planting time are now under intensive research at the Breck's laboratories.

### New SEPTEMBER Everbearing Red Raspberry

First offering in sizable quantities to the trade. Weeks earlier than Indian Summer—the fall crop is more certain.

	Per 100	Per 1000
No. 1 Suckers 3/16-in. cal. and up.....	\$12.50	\$100.00
Transplants 1/4-in. cal. and up .....	17.50	150.00

We have a complete list of other red raspberries and small fruits. Write for list.

**CONGDON'S WHOLESALE NURSERY**  
NORTH COLLINS, N. Y.



### PRINCETON NURSERIES

**A very complete line of  
Quality Ornamental Stock.**

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**Ph. Princeton 1776 PRINCETON, N. J.**

## LANDSCAPE MATERIAL

### 40,000 Red Pine

[Compact, full-bodied trees, pruned every year for 4 years.]

#### RED PINE, specimen grade

	Each
3 1/2 to 4 ft., B&B.....	\$ 4.00
4 1/2 to 5 ft., B&B.....	5.50
5 1/2 to 6 ft., B&B.....	6.50
6 1/2 to 7 ft., B&B.....	7.50

#### RED PINE, medium grade

3 to 4 ft., B&B.....	2.75
4 to 5 ft., B&B.....	3.75
5 to 6 ft., B&B.....	4.75

A number of buyers prefer the above grade for competitive business, screening, highway jobs, etc.

#### WHITE-FLOWERING DOGWOOD, standard or multiple trunks

3 to 4 ft., B&B.....	2.50
4 to 5 ft., B&B.....	3.00
5 to 6 ft., B&B.....	3.50
6 to 7 ft., B&B.....	4.50
7 to 8 ft., B&B.....	6.50
8 to 9 ft., B&B.....	7.50

#### JUNIPERUS HETZI

15 to 18 ins., B&B.....	2.00
18 to 24 ins., B&B.....	2.50
24 to 30 ins., B&B.....	3.25
30 to 36 ins., B&B.....	3.50

#### JUNIPERUS PFITZERIANA

15 to 18 ins.....	2.25
-------------------	------

#### NORWAY SPRUCE

2 1/2 to 3 ft., B&B.....	2.50
3 1/2 to 4 ft., B&B.....	3.00
4 1/2 to 5 ft., B&B.....	3.50

#### TAXUS ANDERSONI

15 to 18 ins., B&B.....	2.50
18 to 24 ins., B&B.....	3.75
24 to 30 ins., B&B.....	4.75

#### TAXUS BROWNI

15 to 18 ins., B&B.....	3.25
24 x 24 ins., B&B.....	6.00
4 x 4 ft., B&B.....	50.00

#### TAXUS CANADENSIS

18 to 24 ins., B&B.....	2.50
24 to 30 ins., B&B.....	3.00

#### TAXUS CUSPIDATA

15 to 18 ins., B&B.....	2.75
18 to 24 ins., B&B.....	3.75
4 to 5 ft., B&B, heavy.....	35.00

#### TAXUS HICKSI

15 to 18 ins., B&B.....	2.75
18 to 24 ins., B&B.....	3.75
24 to 30 ins., B&B.....	4.75

#### TAXUS INTERMEDIA

15 to 18 ins., B&B.....	3.50
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NOTE: 5% discount on orders paid on delivery or when called for. No small orders boxed and shipped.

**WADE & GATTON NURSERIES**  
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## Coming Events

### MEETING CALENDAR

For the benefit of state association officers who wish to set the time of midwinter meetings with a minimum of conflict, the following list is given of convention dates already made known. Secretaries of other associations are invited to notify the editor of further meeting dates as soon as they are set.

November 12 and 13, fall meeting of the Holly Society of America, Rutgers University, New Brunswick, N. J.

December 2 to 4, Wisconsin Nurserymen's Association, Hotel Schroeder, Milwaukee, Wis.

December 7 and 8, Minnesota State Nurserymen's Association, Radisson hotel, Minneapolis, Minn.

December 9, Western Pennsylvania Nurserymen's Association, Webster Hall, Pittsburgh, Pa.

December 10 and 11, Michigan landscape gardeners' conference, Michigan State College, East Lansing, Mich.

January 6 and 7, Maryland Nurserymen's Association, Emerson hotel, Baltimore, Md.

January 12 to 14, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 18 to 20, Indiana Association of Nurserymen, Purdue University, Lafayette, Ind.

January 18 to 20, short course for arborists, landscape gardeners and nurserymen, sponsored by the department of horticulture, Ohio State University, at Neil House, Columbus, O.

January 20 to 22, Ohio Nurserymen's Association, Neil House, Columbus, O.

January 24 to 26, Virginia Nurserymen's Association, Inc., John Marshall hotel, Richmond, Va.

January 27 and 28, short course for nurserymen given by the Connecticut Nurserymen's Association in cooperation with the department of plant sciences of the University of Connecticut, at the University of Connecticut, Storrs, Conn.

February 2 to 4, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

### OHIOANS PLAN MEETING AND SHORT COURSE

A short course for arborists, landscape gardeners and nurserymen will be held January 18 to 20, sponsored by the department of horticulture, Ohio State University, at Neil House, Columbus, O. The last day

### Enkianthus Campanulatus

Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend **Enkianthus Campanulatus**. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

8 to 12 ins., TT.....\$15.00 per 100

### Azalea Kurume

Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds.

2-yr., T, 4 to 8 ins., \$15.00 per 100.

Also **Azalea Hinodegiri**, 3 to 5 ins., T.....\$15.00 per 100

### Japanese Boxwood

**Buxus Japonica** is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T.....\$10.00 per 100

Send for list of rare plants.

## ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

## EVERGREENS

### NORTHERN-GROWN

Canadian Hemlock, American

Arborvitae, Balsam Fir.

	Per 100	Per 1000
2 to 4 ins., sdgls.....	\$ 1.00	\$ 5.00
3 to 6 ins., sdgls.....	2.00	10.00
6 to 9 ins., sdgls.....	3.00	20.00
9 to 12 ins., sdgls.....	7.00	45.00
12 to 18 ins., sdgls.....	9.00	70.00

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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**Rhododendrons**

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**Perennials, Roses**

**All Nursery Items**

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500 Colorado and Koster Blue Spruce 4 to 15 feet.

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PEEKSKILL, N. Y.

## PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy  
American Nurseryman Chicago 4.

of the short course, January 20, will be jointly sponsored by the Ohio Nurserymen's Association, which will hold its winter meeting January 20 to 22, at Neil House.

#### MINNESOTANS TO MEET

The Minnesota State Nurserymen's Association will hold its winter meeting December 7 and 8 at the Radisson hotel, Minneapolis, Minn.

#### PENNSYLVANIA MEETING

The Western Pennsylvania Nurserymen's Association will hold its winter meeting December 9, at Webster Hall, Pittsburgh, Pa. This will be a dinner meeting.

#### MICHIGAN CONFERENCE

The Michigan landscape gardeners' conference will be held December 10 and 11 at Michigan State College, East Lansing, Mich.

#### INDIANA GROUP TO MEET

The Indiana Association of Nurserymen will hold its winter meeting January 18 to 20 at Purdue University, Lafayette, Ind.

#### VIRGINIA WINTER MEETING

The winter meeting of the Virginia Nurserymen's Association will be held January 24 to 26 at the John Marshall hotel, Richmond, Va.

#### PLAN CONNECTICUT COURSE

The department of plant sciences of the University of Connecticut will cooperate with the Connecticut Nurserymen's Association in sponsoring a short course for nurserymen January 27 and 28 at the University of Connecticut, Storrs, Conn.

#### NEW ENGLAND CONVENTION

The annual convention of the New England Nurserymen's Association will be held February 2 to 4 at the Hotel Kenmore, Boston, Mass.

#### WELLS TO JOIN HILL

James S. Wells, propagation authority and manager of the Koster Nursery, Bridgeton, N. J., for the past seven years, has announced that he will join D. Hill Nursery Co., Dundee, Ill., on November 1, where he will pursue his propagation experiments.

## MORaine LOCUST

(Plant Patent No. 836)



The Moraine Locust is a round-headed tree when young, but tall and vase-shaped when older, attaining a height of 80 to 100 feet. It grows more rapidly than the common type of locust because of the absence of seed pods and thorns. This attribute, together with the small leaflets which mostly drift into the lawn between the blades of grass, makes little fall cleanup necessary. It stands pruning well but very little is necessary since the lower branches self-prune as the top grows wider. This makes it desirable for narrow street planting of small properties, as sufficient clearance can be maintained for any type of traffic. Thrives under semiarid conditions. Transplants easily.

	Per 10	Per 100
7 to 8 feet, whips. (Suggested retail \$7.50).....	\$33.50	\$300.00
6 to 7 feet, whips. (Suggested retail 6.00).....	27.50	250.00
5 to 6 feet, whips. (Suggested retail 5.00).....	22.50	200.00

## THE WILLIS NURSERY Co.

"Your Wholesale Nurserymen"

OTTAWA, KAN.

### PEONIES

Ready for shipping now.  
See our fall list for large assortment.  
Don't forget to place your order for  
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**LAKE'S SHENANDOAH NURSERIES**  
SHENANDOAH, IA.

Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Grapevines, 1-yr.

Ornamental Trees

Thorne Brewster

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## Good Customer Relations

By Frederic Heutte

The nursery industry as a whole is helping to mold a new era socially and economically and is largely responsible for the public's becoming more plant-conscious and beauty-loving year by year. It used to be that only mature folks fixed their yards and became interested in gardening lore, but this situation has changed. Lecturers often observe that, where they used to talk to garden groups which averaged a mature 40, they now address audiences which average half those years. This is an index which should not be overlooked: Interest in gardening has expanded, and the new devotees are yearning for knowledge. The supplying of that knowledge is the greatest opportunity in customer relations.

There are still persons in the nursery business, however, who hold to the theory that divulging planting information is revealing a trade secret. Successful nurserymen know differently. A nurseryman on Long Island used to take time to escort customers through his propagating houses and lining-out beds. He used to say that customers did not mind paying prices if they knew what they were buying and understood the many steps through which plants pass before they are put on sale. This is a good point. The man who says he could be selling another plant while explaining how to grow one is certainly short-sighted. The more time a nurseryman can spend passing information on to his customers, the better relations he will establish.

Probably at no time in our horticultural progress have there been so many media through which plant knowledge could be gathered. New gardening books are coming out monthly and periodicals devoted to the culture of plants are many. Some of the best horticultural brains of our country edit and write the articles they contain, and some of the nurserymen feel that it is therefore not in their province to dispense information. Yet nurserymen who sub-

scribe to horticultural magazines have their fingers on the pulse of horticultural progress constantly and are the logical medium through which many of the new developments and ideas can be sifted and interpreted for local consumption.

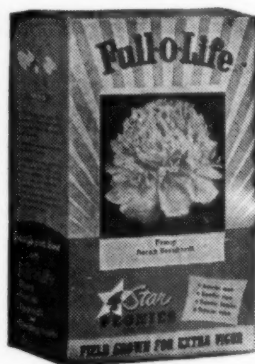
One of the most unattractive blemishes on the American scene is the lovely single-storied cottage hidden behind a mass of overgrown shrubbery. If it were possible, through education, to eliminate this sight from the American scene, it would be a great asset to the beauty of our country. The nurseryman's job is not complete when he sells the "finished product" in his salesyard; the finished product, often sold for such a base-planting, is misleading, for the untutored buyer does not realize the plant's potential

growth capacity or how to use it to best advantage.

"Forestation of the American home" occurs less frequently now than it did 10 years ago, and nurserymen's organizations are doing much to eliminate it. Prof. Pulman Porter, of Cornell University, lectured on this subject at a nurserymen's meeting not long ago and made an excellent presentation of the subject. The problem is still with us, and occasional reminders are in order.

The nurseryman's main business is, of course, selling plants. Yet many nurserymen feel strongly about the problem of poor landscaping and probably cut their own financial throats many times by refusing to sell plants which will not suit a specified purpose. The problem arises because a plant that sells for less per foot is the one that sells the most readily. The only solution is education.

Only when the public has learned



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Flowering Trees • Fruit Trees  
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ROMEo, MICH.**

From an address, "Customer Relations," delivered by Frederic Heutte, superintendent of parks and cemeteries, Norfolk, Va., at the 1953 convention of the Virginia Nurserymen's Association. In his interpretation of his theme, Mr. Heutte suggests two innovations worthy of the special attention of nurserymen, i.e., the use of plants to provide a setting for highway billboards and the planting of local flora along highways for the edification of travelers from other areas.

# SCARFF'S Nursery

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— Many other Varieties —

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**New Carlisle, Ohio**

the merits and demerits of a plant will better landscaping result. More salesyards should carry a representative group of plants which take kindly to pruning, such as the ligustrums and certain varieties of holly. Half of the plants should be left un-sheared to exemplify what happens to them if the proper pruning is not exercised. Also, fewer coniferous evergreens should be used when restricting their growth means to distort their mature splendor.

The park system is also doing much to educate the public, and its relations with the nursery industry are of the best. As new plant introductions come under their surveillance and prove satisfactory, co-operation and exchange with nurserymen are practiced.

Perhaps one of the fundamentals of any discussion of customer relations is the great essential of acquainting the buying public with the commodities that are handled. A broader aspect of this is acquainting the public with new uses of materials—civic beautification, which will make our country more attractive, a better place in which to live.

There is a concerted drive to eliminate billboards from highways. Unattractive as they are, they are still a necessary item. There is a temp-

# TREE PEONIES

Tree peonies have been one of our specialties for over thirty years, and it is with pleasure that we offer this rare and gorgeous plant to the trade in general.

Tree peonies develop into shrubs or small trees, they are perfectly hardy and the flowers are not only as beautiful as herbaceous peonies, but they come in yellow, copper, lavender, purple, etc. We offer the following for fall or spring shipment. Plants are 3 yrs. in the field or older, and of a size ready to bloom. We have over 3000 field plants in following varieties:

	Each
ARCHIDUC LUDOVICO (Chin. dbl.), enormous flower, flesh-pink, turning to soft lilac.....	\$3.75
ARGOSY (Lutea sgl.), clear sulphur-yellow.....	5.00
ATHLETE (Chin. dbl.), large, flesh-pink.....	3.50
AUORE (sgl.), coppery, terra-cotta, very different color.....	7.50
BARONNE D'ALES (Chin. dbl.), vivid salmon-pink.....	5.00
FLAMBEAU (Lutea dbl.), bright salmon-red, huge flower.....	9.00
FLORA (Jap.), pure single white, an immense flower.....	7.50
GEORGES PAUL (Chin. dbl.), amaranth and violet.....	3.50
JULES PIRLOT (Chin. dbl.), satiny-pink, flushed carmine.....	3.50
LA LORRAINE (Lutea dbl.), sulphur-yellow with salmon tinge when opening.....	7.50
REINE ELIZABETH (Chin. dbl.), uniform salmon-pink.....	3.75
SATIN ROUGE (Lutea dbl.), blood-orange.....	7.50
SOUV. DE DUCHER (Chin. dbl.), bright reddish-violet.....	3.75
TRIOMPHE DE VANDERMALEN (Chin. dbl.), clear rose-purple.....	3.75

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## EVERGREENS

Heavily Sheared

JUNIPER	Each	Each
Pfitzer	5 to 25	
	24 and up	
15 to 18 ins., B&B.	\$2.75	\$2.55
18 to 24 ins., B&B.	3.25	3.05
2 to 2 1/2 ft., B&B	3.85	3.65

### Glaucia Hetzi

15 to 18 ins., B&B.	2.75	...
18 to 24 ins., B&B.	3.25	...
2 to 2 1/2 ft., B&B.	3.85	...

### Irish

2 1/2 to 3 ft., B&B	2.00	...
3 1/2 to 4 ft., B&B	3.00	...
4 to 4 1/2 ft., B&B	3.30	...

### ARBORVITAE

#### Dark Green American

2 to 2 1/2 ft., B&B	2.00	...
2 1/2 to 3 ft., B&B	2.50	...
3 to 3 1/2 ft., B&B	2.85	...
3 1/2 to 4 ft., B&B	3.15	...
4 to 4 1/2 ft., B&B	5.00	4.80
5 to 6 ft., B&B	7.00	...

### Pyramidalis

3 to 3 1/2 ft., B&B	3.00	...
3 1/2 to 4 ft., B&B	3.25	3.05
4 to 4 1/2 ft., B&B	3.50	3.30
4 1/2 to 5 ft., B&B	3.75	3.55
5 to 6 ft., B&B	4.75	...
6 to 7 ft., B&B	6.00	...

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Fall, 1953

Montmorency Cherry, 1-yr., 18 to 24 ins.  
5/16-in., 7/16-in., 9/16-in. and  
1 1/16-in. caliper. Many trees in  
1 1/16-in. grade will run 3/4-in.

Montmorency Cherry, 2 and 3-yr.,  
heavy.  
XXX grade, heavy  
XX grade, heavy  
1 1/16-in. grade  
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Most of the grades 1 1/16-in. and up  
will run 6 to 7 ft. in height. Fine for  
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tation to say "A necessary evil," but a cross-country trip will convince anyone of their utility when looking for a stopover. Nevertheless, improvements could be made. One possibility lies in nurserymen's endeavoring to sell outdoor advertisers the idea of a proper setting for their billboards. These projects would supply an excellent opportunity to place fast-growing base planting specimens. It is not a simple matter—highway legislation to regulate the size and distance from the highway of a setback for billboards would be necessary—but the suggestion is a challenge to nurserymen's ingenuity to make something beautiful out of unattractive signs. With the joint cooperation of state highway departments, outdoor advertisers and nurserymen, the highway of the future might have "advertising marts"—properly landscaped setbacks with artistic signs placed conveniently at approaches to cities. Here, the traveler could study the advertisements at his leisure and decide on a place to stop over. This idea may be a little optimistic, but we Americans are noted for our ability to settle our problems by cooperation.

### Planting the Highways

Another suggested outcome of a broad interpretation of customer relations—and public education—is the use of representative flora of various sections of our country along the highways, in motel and service station yards, at entrances to cities, towns and villages; so that those who are not geographically located where they can enjoy the same flowers can admire them when driving through. Nurserymen have a duty to apprise the general public of the beauty that remains dormant and could flourish where it has not been grown before.

There is a field of camellias at Semmes, Ala., which contains many hundreds of plants. From the edge of the field, the planting stretches as far as the eye can see. It is surprising that so many plants of one variety exist in one species, and one wonders how in the world so many plants can find a sale to consumers. The answer is that there are still many homes where beauty has not penetrated. We are not even approaching the limits of landscaping possibilities. The market has only been tapped. Extension of its possibilities depends on an effective manner of presenting them to the public, and this is, at least in part, the responsibility—and opportunity—of nurserymen.

## CHRISTMAS TREES

Red Pine.	Each
5 1/2 to 7 ft., bushy, freshly cut.	\$1.75
3 ft., bushy, B&B.	3.00
4 to 5 ft., bushy, B&B.	4.00
5 to 6 ft., bushy, B&B.	5.00

### Norway Spruce.

2 1/2 to 3 ft., bushy, B&B	2.50
3 to 4 ft., bushy, B&B.	3.00

### Black Hills Spruce.

18 to 24 ins., B&B.	2.25
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### Scotch Pine, Canadian. Selected trees.

5 1/2 to 7 ft., from	\$1.85 to \$2.50
50 trees	\$2.50 ea.
200 trees	2.25 ea.
Carload of 1000.	1.85 ea.

### Balsam Fir, Nova Scotia. Selected trees.

Price per bundle.	\$6.50
50 to 100 bundles.	\$5.50 per bundle
Carload (approx. 450 bundles), delivered	\$5.00 per bundle

10% deposit required.

Write, wire or phone Butler 3835

## WADE & GATTON NURSERIES

BELLVILLE, O.

## SURPLUS

Fall, 1953—Spring, 1954

506	Berberis thunbergii, 18 to 24 ins.
400	Cydonia japonica rubra, 2 to 3 ft.
300	Cotoneaster acutifolia, 3 to 4 ft.
1000	Cotoneaster acutifolia, 24 to 30 ins.
800	Forsythia fortunei, 3 to 4 ft.
500	Lonicera zabeli, red, 2 to 3 ft.
500	Lonicera zabeli, red, 3 to 4 ft.
400	Lonicera, wheeling red, 3 to 4 ft.
400	Lonicera tatarica, pink, 3 to 4 ft.
300	Persian Lilac, 3 to 4 ft.
1000	Spiraea foerbeli, 15 to 18 ins.
200	Tamarix africana, 3 1/2 to 4 ft.
250	Viburnum lentago, 3 to 4 ft.
300	Bolleana Poplar, 10 to 12 ft.
400	Lombardy Poplar, 8 to 10 ft.

Write for special prices.

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## PEONIES • IRISES DAY LILIES • POPPIES

ALL YOUNG-GROWN STOCK

PROMPT SERVICE

Send for Wholesale Prices.

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**WASSENBERG GARDENS**

4 1/2 Miles East on U.S. 30

VAN WERT, OHIO • "The Peony City"

## WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

**HARDY MUMS AND PHLOX**

Ask for our Perennial Catalog.

**WELLER NURSERIES CO., Inc.**

Leading Perennial Growers

HOLLAND, MICH.



## Plant Patents

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1186. Juniper plant. By Carl White, Walla Walla, Wash. A new and distinct variety of juniper plant, characterized by its prostrate spreading shape, the foliage being feathery and being predominantly green, silver and gray in color, the aged branches being substantially wood brown and the buds being green and yellow striped.

No. 1187. Saintpaulia plant. By Frode Rahbek, Primos, Pa., assignor to Tobert Craig Co., Inc., Norwood, Pa. A new variety of saintpaulia plant distinctively characterized by the symmetrical star-shaped, deep blue flowers, having evenly sized petals, and by the large average size of the petals.

No. 1188. Rose plant. Francis Meiland, Cap Azura, Cap d'Antibes, France, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the relatively vivid, lively, yet harmonious tones of red and yellow colors of its bicolored blooms, combined with its superior foliage and good disease resistance, and by the improved vigor of the plant as evidenced by its bushy habit of growth, production of foliage in abundance and great freedom of bloom.

No. 1189. Rose plant. Mathias Tantau, Uetersen, Germany, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of the large-flowered, hybrid polyantha class, characterized particularly as to novelty by the unusually velvety texture of the petals of its flowers; by the relatively fixed and long-lasting deep red color of its flowers, said color remaining unchanged from the early bud through successive stages of bloom and enduring even under adverse weather conditions; by the long persistence of the blooms without petal deterioration; by the regularity of form of its clusters of inflorescence and their uniform production on the plant, and by the upright, compact and even growth of the plant, altogether combining to extend the usefulness and value of this variety as border and hedge plants, as well as for cut flower use and for other forms of garden decoration.

No. 1190. Camellia plant. Roland W. Dailey, San Jose, Calif. A new and distinct variety of camellia plant, characterized as to novelty by its slender pendulous branches, its habit of putting out blooms along a long portion of the branches and the formation of the blooms in downwardly facing positions.

No. 1191. Climbing rose plant. Edward E. Marsh, Pasadena, Calif. A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its strong and vigorous climbing habit and its persistency of reproduction of this characteristic, with no apparent tendency to revert to bush form when propagated by budding.

No. 1192. Rose plant. Francis Meiland, Cap Azura, Cap d'Antibes, France, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose

## LINING-OUT STOCK

Write for illustrated list.

	Per 100	Per 1000
<b>Black Hills Spruce, XX, 12 to 15 ins.</b> .....	<b>\$50.00</b>	.....
XX, 9 to 12 ins.....	30.00	.....
X, 6 to 9 ins.....	15.00	.....
3-2, 4 to 8 ins.....	10.00	<b>\$ 75.00</b>
<b>Colorado Blue Spruce, X, 6 to 9 ins.</b> .....	<b>16.00</b>	.....
2-0, 4 to 6 ins.....	7.50	32.00
2-0, 2 to 4 ins.....	5.00	20.00
<b>Scotch Pine, XX, 18 to 24 ins.</b> .....	<b>50.00</b>	.....
XX, 12 to 18 ins.....	30.00	.....
2-2, 6 to 12 ins.....	12.00	100.00
<b>Austrian Pine, 2-0, 2 to 5 ins.</b> .....	<b>6.00</b>	25.00
2-1, 2 to 4 ins.....	8.00	35.00
<b>Douglas Fir (Pseudotsuga Taxifolia Glauca),</b>		
2-0, 3 to 8 ins.....	7.50	28.00
<b>Douglas Fir (Snowy Mountain), X, 4 to 10 ins.</b> .....	<b>15.00</b>	125.00
<b>Norway Pine, 2-1, 2 to 4 ins.</b> .....	<b>5.00</b>	25.00
<b>White Birch, X, 12 to 24 ins.</b> .....	<b>25.00</b>	.....

## Scotch Pine Christmas Tree Stock

Our Scotch Pine, in both seedlings and transplants, is heavier stock than before. We suggest you request samples this fall before ground freezes—or better yet, come see them.

	Per 100	Per 1000	Per 1000 (in lots of 10,000)	Per 1000 (in lots of 100,000)
<b>Riga Scotch Pine, 2-1, 3 to 8 ins.</b> .....	<b>\$10.00</b>	<b>\$45.00</b>	<b>\$40.00</b>	.....
2-0, 8 to 12 ins.....	8.00	42.50	38.50	.....
2-0, 3½ to 8 ins.....	7.50	26.00	24.00	<b>\$22.50</b>
2-0, 2 to 3½ ins.....	4.00	16.00	15.00	14.00
<b>Scotch Pine, 2-0, 3 to 6 ins.</b> .....	<b>5.00</b>	<b>22.00</b>	<b>20.00</b>	.....

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 5 per cent discount for cash with order on FALL orders.

On SPRING orders, 5 per cent discount if paid in full by December 1, 1953.

25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Packing charge included in tree prices. Minimum order \$10.00.

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Telephone 123 or 732

HARBOR SPRINGS, MICH.

## EUONYMUS PATENS

Uniform type, grown from cuttings, medium-size leaf, bushy plants.

	Each
12 to 15 ins., B&B.....	<b>\$1.25</b>
15 to 18 ins., B&B.....	<b>1.50</b>
18 to 24 ins., B&B.....	<b>1.75</b>

Each grade 25c less if bare-rooted.

Ask for prices on:

<b>Taxus capitata</b> .....	3½ to 7 ft.
<b>Sugar Maple</b> .....	1½ to 2½ ins.
<b>Red Oak</b> .....	1½ to 2½ ins.
<b>Moraine Locust</b> .....	5 to 8 ft.

Prices at the nursery, truckload lots.

**HILLENMEYER NURSERIES**  
LEXINGTON, KY.

## EVERGREENS

	Each
<b>ANDORRA JUNIPER</b> , sheared	
18 to 24 ins., B&B.....	\$3.00
24 to 30 ins., B&B.....	3.50
30 to 36 ins., B&B.....	4.00
<b>PFITZER JUNIPER</b> , sheared	
18 to 24 ins., B&B.....	3.25
24 to 30 ins., B&B.....	3.75
30 to 36 ins., B&B.....	4.50
36 to 42 ins., B&B.....	5.00
42 to 48 ins., B&B.....	5.50
<b>BLUE PFITZER JUNIPER</b> , sheared	
24 to 30 ins., B&B.....	3.75
30 to 36 ins., B&B.....	4.50
<b>SAVIN JUNIPER</b> , sheared	
18 to 24 ins., B&B.....	3.25
24 to 30 ins., B&B.....	3.75
<b>PROSTRATE JUNIPER</b>	
18 to 24 ins., B&B.....	3.00
24 to 30 ins., B&B.....	3.75
<b>MEYER JUNIPER</b>	
15 to 18 ins., B&B.....	3.50
18 to 24 ins., B&B.....	4.25
<b>GREEK JUNIPER</b>	
18 to 24 ins., B&B.....	2.75
24 to 30 ins., B&B.....	3.25
<b>CANAERT JUNIPER</b> , sheared	
3 to 3 1/2 ft., B&B.....	4.50
3 1/2 to 4 ft., B&B.....	5.50
<b>BURK JUNIPER</b> , sheared	
3 1/2 to 4 ft., B&B.....	4.50
<b>DUNDEE JUNIPER</b> , sheared	
3 to 3 1/2 ft., B&B.....	4.50
3 1/2 to 4 ft., B&B.....	5.50
<b>BLUE JUNIPER</b> , sheared	
3 1/2 to 4 ft., B&B.....	5.25
<b>KETELEER JUNIPER</b> , sheared	
3 1/2 to 4 ft., B&B.....	5.50
<b>BLUE SCOPULORUM JUNIPER</b> , sheared	
3 to 3 1/2 ft., B&B.....	4.50
3 1/2 to 4 ft., B&B.....	5.50
<b>MENTOR BARBERRY</b>	
18 to 24 ins., BR.....	.75
24 to 30 ins., B&B.....	1.00
30 to 36 ins., B&B.....	1.25

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AFTON 23, MO.

## MORaine LOCUST

(Plant Patent No. 836)

For Fall, 1953, and Spring, 1954

	10 to	50 to
	49	499
2-yr., 6 to 7 ft., whips.....	\$2.75	\$2.50
2-yr., 6 to 7 ft., branched..	3.35	3.00
2-yr., 7 to 8 ft., whips.....	3.35	3.00
2-yr., 7 to 8 ft., branched..	4.50	4.00

## HINSDALE NURSERIES, INC.

HINSDALE, ILL.

Licensed Propagators and Growers of the  
MORaine LOCUST

plant of the hybrid tea class, characterized particularly as to novelty by the length of its pointed buds; by the habit of development of the flowers, with a long-pointed, closed center, which is retained through successive stages of the opening bloom, while the outer petals develop a symmetrical circular outline around that center; by the unique coloring of its flowers, and by the unusual, pearly delicacy of their light and intricately blended colors, in combination with its sound plant qualities, altogether making the variety an ideal exhibition rose.

No. 1193. Rose plant. Francis Meiland, Cap Azura, Cap d'Antibes, France, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose plant of the large-flowered hybrid polyantha class, characterized particularly as to novelty by the relatively fixed, persistent, brilliant, uniform spectrum-red coloring of its buds and blooms in their different stages of development; by the semidouble and clustered habit of growth of its blooms; by the relatively flattened form of its open blooms, and by the long-lasting quality of its blooms, without tendency to fade, combined with the best characteristics of other varieties of its class in respect to hardiness, vigor, disease resistance and freedom of bloom.

No. 1194. Euonymus fortunei plant. Clifford D. Corliss, Gloucester, Mass., assignor to Corliss Bros., Inc. A new and distinct variety of broad-leaved evergreen euonymus plant, characterized particularly by its adaptability to landscape and specimen planting and to various soil, sun and temperature conditions; its extreme hardiness and drought tolerance; its habit of upright growth from a central trunk, with branches growing laterally and gracefully ascending without support into a well-rounded, dense shrub, which is broader than it is tall and well-bushed down to the ground; its strong, fibrous roots, which assure ease of transplantation; its medium-size, elliptical dark green leaves; its narrow, long-pointed leaf buds, and the reddish-purple color of its seed capsule.

No. 1195. Euonymus fortunei plant. Clifford D. Corliss, Gloucester, Mass., assignor to Corliss Bros., Inc. A new and distinct variety of euonymus plant, characterized particularly by its natural and distinctly erect growth, without the necessity of support or clipping; its habit of symmetrical and uniform branching in all directions from a central trunk, forming a generally low, compact, semidwarf bush, which is broader than it is tall; its great density of branches and leaves, which lie flat and imbricated; its small, wide leaves of glossy dark green color, with much lighter veins; its exceptional hardiness, absence of winter burn and drought resistance; its ease of propagation and transplantation; its excellent adaptability to different conditions of soil, temperature, sun and moisture, and the complete absence of fruits.

No. 1196. Rose plant. Bror Engkvist, Halsingborg, Sweden, assignor by mesne assignments to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the peach-red general color tonality, lightly overcast with capucine orange, of its flowers; by the distinctive quilling habit of the petals of its flowers, and by its relatively quick growth and rapid

## — ATTENTION — LANDSCAPE MEN and ARCHITECTS!

If you have been looking for specimen plants in large sizes, we have them! All heavy, sheared and root-pruned!

Cutleaf Japanese Maple...	3 to 5 ft.
Ilex opaca .....	6 to 10 ft.
Juniperus burki .....	5 to 6 ft.
Juniperus canaerti .....	6 to 12 ft.
Juniperus glauca hetzi .....	18 to 36 ins.
Juniperus keteleeri .....	6 to 12 ft.
Juniperus kosteri .....	4 to 6 ft.
Mugho Pine .....	4 to 5 ft.
Taxus cuspidata .....	3 to 5 ft.
Taxus hicksi .....	4 to 5 ft.

Jumbo Size APPLE, 6 to 8 ft. in leading varieties.

A general line of shrubs, shade trees, fruit trees and hedges. If you haven't received our Fall Wholesale Price List, write us at once.

Drive to our nurseries and look over our stock. We are located 225 miles southwest of Chicago, Ill., on Highways 45 and 37; 90 miles east of St. Louis, Mo., on Routes 50 and 37; 85 miles west of Vincennes, Ind., on Routes 50 and 37.

## EGYPTIAN NURSERY & LANDSCAPE CO.

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## COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

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Wholesale growers of the best

Ornamental Evergreens  
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Shrubs and Roses

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Painesville, Ohio

## DWARF BLUE-LEAVED ARCTIC WILLOW

(Salix Purpurea Nana)

Beautiful, new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness. 12 to 15 ins., 1-yr. stock, \$12.00 per 100, \$100.00 per 1000; 2-yr. finished shrubs, \$20.00 per 100.

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## — QUALITY STOCK —

100 Spreading Yew, 2 ft.  
100 American Arborvitae, 3 ft.  
100 Pfitzer Juniper, 2 ft.  
100 Red Barberry, 2 ft.  
Three times transplanted. Heavy ground. All for \$650. Buyer must dig.  
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Ph. Ann Arbor, Mich., 28920 (evenings)

# WHOLESALE PRICE LIST—TO THE TRADE ONLY

WE STILL HAVE THE FOLLOWING PLANTS

## TAXUS

	No.	Size	Each
<i>Taxus cuspidata</i> .....	110	15 to 18 ins.	\$3.00
<i>Taxus browni</i> .....	85	15 to 18 ins.	3.25
	110	18 to 24 ins.	4.00
<i>Taxus hicksi</i> .....	225	15 to 18 ins.	3.00
	500	18 to 24 ins.	4.00
	170	24 to 30 ins.	4.75
<i>Taxus hatfieldi</i> .....	210	18 to 24 ins.	4.00
	60	24 to 30 ins.	4.75
<i>Taxus andersoni</i> .....	130	18 to 24 ins.	3.75
<i>Taxus columnaris</i> .....	125	24 to 30 ins.	4.50
<i>Taxus intermedia</i> .....	115	18 to 24 ins.	4.00
<i>Magnolia soulangeana</i> ..	190	3 to 4 ft.	4.00
	60	4 to 5 ft.	5.00
<i>Baker's Pyramidal</i> .....	100	3 to 4 ft.	2.75
<i>Arborvitae</i> .....	100	4 to 5 ft.	3.25
<i>Euonymus patens</i> (in No. 3 Cloverset pots) .....	100	18 to 24 ins.	2.50

## JUNIPERS (Heavy Sheared)

	No.	Size	Each
<i>Pfitzer Juniper</i> .....	310	18 to 24 ins.	\$2.75
	120	24 to 30 ins.	3.50
	75	30 to 36 ins.	4.25
	15	3 to 4 ft.	5.00
<i>Compact Pfitzer Juniper</i> ..	60	15 to 18 ins.	2.50
	120	18 to 24 ins.	3.00
	30	24 to 30 ins.	3.75
<i>Von Ehron Pfitzer Juniper</i> ..	20	24 to 30 ins.	3.50
	30	30 to 36 ins.	4.25
	65	3 to 4 ft.	5.00
<i>Blue Hetz Pfitzer Juniper</i> ..	210	18 to 24 ins.	2.75
	400	24 to 30 ins.	3.50
	170	30 to 36 ins.	4.25
	25	3 to 4 ft.	5.00
<i>Irish Juniper</i> .....	100	2 1/2 to 3 ft.	2.00
	100	3 to 4 ft.	2.50
<i>Spiny Greek Juniper</i> .....	75	2 1/2 to 3 ft.	2.00
	100	3 to 4 ft.	2.50
<i>Canaert Juniper (Grafts)</i> ..	15	3 to 4 ft.	4.00
	35	4 to 5 ft.	5.00
<i>Keteleer Juniper</i> .....	225	3 to 4 ft.	4.00

Terms—5% discount when cash accompanies order. 2% discount when paid within 10 days after receiving invoice. Net 30 days.

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production of new flowers after each flower has been cut from the plant.

No. 1197. Rose plant. Wilhelm Kordes, Holstein, Germany, assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized as to novelty particularly by the relatively sharp and nonfading spectrum red general color tonality of its blooms; by the waved form of the petals of its blooms, which tends to accentuate the color; by the long-lasting quality of its blooms, and by the bushy and upright habits of growth of the plant.

No. 1198. Dicentra plant. Richard H. F. Manske, Guelph, Ont., assignor to John J. Grullemans, Cleveland, O. A new variety of dicentra plant, characterized by its outstanding hardiness and vigor; its extreme floriferousness; its long blooming period, or periods; the large size and wide range of good colors of its flowers; its longer flower stalks, which are basal in all cases; its hardiness and resistance to drought and cold; its more generally upright growth, and its propensity to bloom both in the spring and fall.

No. 1199. Rose plant. Milton L. Whisler, Van Nuys, Calif., assignor to Germain's, Inc. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its vigorous growth, heavy canes and long and strong stems; by its long, pointed buds, and by the profuse blooming habit of its flowers of yellow color near the bases of the petals, shading to creamy white near the outer edges of the petals and sometimes washed or tinted shrimp pink on both the inside and outside surfaces of the petals.

# PEONIES . . . AT THEIR VERY BEST

For over 25 years we have supplied America's top-notch growers and dealers with FINE PEONIES. We grow for root production only; clean, healthy 3 to 5-eye divisions from 3-year plants.

	Each 10 rate	Each 100 rate
ALBERT CROUSSE, light pink, late .....	\$0.45	\$0.40
ARGENTINE, white, exquisite .....	.65	.60
AVALANCHE, white, late .....	.45	.40
CHERRY HILL, deep red, early .....	.65	.60
ECSTASY, Japanese, light pink .....	.65	.60
FELIX CROUSSE, solferino red .....	.45	.40
FRANCES WILLARD, white .....	.50	.40
KELWAY'S GLORIOUS, white .....	1.10	1.00
MARIE CROUSSE, salmon-pink .....	.50	.45
MONS. JULES ELIE, early pink .....		
250 or more, \$0.40 .....	.50	.45
OFFICINALIS RUBRA, Florepleno, early red .....	.60	.50
PRIMEVERE, nearest to yellow .....	.80	.75
REINE HORTENSE, soft pink .....		
250 or more, \$0.37 1/2 .....	.45	.40
SARAH BERNHARDT, deep pink .....		
250 or more, \$0.37 1/2 .....	.45	.40
SOLANGE, amber and cream .....	.55	.50
WALTER FAXON, coral-pink .....	.50	.45

Complete list for the asking. We also are large growers of L. O. and finished stock in evergreens and other nursery items.

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Harold E. Hicks



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60 at 100 Rate—250 at 1000 Rate

## Transplants

Colorado Blue Spruce	Per 100	Per 1000
4-yr., 8 to 10 ins.	\$18.00	\$180.00
6 to 8 ins.	15.00	150.00
4 to 6 ins.	12.00	100.00

Black Hills Spruce	Per 100	Per 1000
4-yr., 10 to 12 ins.	20.00	180.00
8 to 10 ins.	15.00	130.00
6 to 8 ins.	12.00	100.00

Norway Spruce	Per 100	Per 1000
4-yr., 12 to 15 ins.	15.00	140.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00

White Spruce	Per 100	Per 1000
12 to 15 ins.	20.00	180.00
8 to 12 ins.	15.00	100.00

American Arborvitae	Per 100	Per 1000
4-yr., 12 to 15 ins.	15.00	140.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00

## 3-yr. Seedlings

Norway Spruce	Per 100	Per 1000
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00

White Spruce	Per 100	Per 1000
8 to 10 ins.	4.00	35.00
6 to 8 ins.	3.50	25.00

Black Hills Spruce	Per 100	Per 1000
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00

Black Spruce	Per 100	Per 1000
6 to 8 ins.	3.00	25.00

Dwarf Tyrolean Mugho Pine	Per 100	Per 1000
4 ins.	4.00	35.00

Riga Scotch Pine	Per 100	Per 1000
8 to 10 ins.	4.00	35.00
6 to 8 ins.	3.50	28.00

Austrian Pine	Per 100	Per 1000
6 to 8 ins.	3.50	30.00

Ponderosa Pine	Per 100	Per 1000
6 to 8 ins.	3.00	25.00

## 2-yr. Seedlings

Colorado Blue Spruce	Per 100	Per 1000
2 to 4 ins.	3.00	25.00

White Spruce	Per 100	Per 1000
2 to 4 ins.	2.50	20.00

Black Hills Spruce	Per 100	Per 1000
2 to 4 ins.	3.00	25.00

Mugho Pine	Per 100	Per 1000
2 to 4 ins.	3.50	30.00

Scotch Pine	Per 100	Per 1000
2 to 4 ins.	2.50	20.00

Austrian Pine	Per 100	Per 1000
2 to 4 ins.	2.50	20.00

Even grade. Packed right.  
Satisfaction guaranteed.

Write for prices on 10,000 and up.

**J. R. PALMER & SON**  
**BLACKDUCK, MINN.**

## LINING-OUT and FINISHED STOCK

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## THE COTTAGE GARDENS

Our 31st Year

Nick I. W. Kriek—Harold E. Hicks  
**LANSING 15, MICH.**

## FLOWERING SHRUBS

Honeysuckle, Zabeli,	Each
2 to 3 ft.	\$0.35
3 to 4 ft.	.50
Persian Lilac,	
3 to 4 ft.	.55
4 to 5 ft.	.75
Packing at cost.	

**HENRY NURSERIES**    **HENRY, ILL.**

## PLANT INTRODUCTION STATION CHOSEN

The New York state experiment station at Geneva has been chosen as the site for a plant introduction station to serve the northeastern section of the United States.

One of four such stations in the country, it will cooperate with the United States bureau of plant industry through its division of plant exploration and introduction and with the experiment stations in the 11 other states in the northeastern region in testing, multiplying, preserving, cataloging and distributing introduced and domestic plants of all sorts which have possible value for industrial or other purposes.

States included in the region, besides New York, are Maine, Vermont, New Hampshire, Rhode Island, Connecticut, Massachusetts, Pennsylvania, New Jersey, Delaware, Maryland and West Virginia.

The Geneva experiment station was selected because of its central location in the region and the presence of an experienced technical staff, greenhouse, laboratory and field facilities to initiate the project.

## TAX CASE DECIDED

The tax court of the United States decided what is believed to be the first case of its kind on September 4, 1953, regarding the question of whether the costs of terracing for the control of soil erosion are deductible as ordinary and necessary business expenses under section 23 (a) of the bureau of internal revenue code.

The court decided that such costs are deductible since they are in the nature of repair and maintenance expense, and nothing new was added to the farm. The improvements were not permanent improvements within section 24 (a) (2) of the code.

One concrete spillway was constructed, but sank into the ground within a year because of erosion. If a system of concrete spillways had been constructed and were a permanent fixture on the farm, the decision might have been modified. So far as is known, no such case has been decided in court.

SEN. GEORGE D. AIKEN sold his interest in the Aiken Nursery, Inc., Putney, Vt., to Lawrence Bryant, 27, Putney, who has been employed there the past two years. The senator disposed of his interest to devote his entire attention to senatorial duties.

## HEMEROCALLIS

	Per 100
August Pioneer	\$15.00
Rajah	15.00
Theron	15.00

## GERMAN IRIS

	\$15.00
Arctic	15.00
California Peach	15.00
Elmohr	15.00
Flora Zenor	15.00
Golden Spike	15.00
Grace Mohr	15.00
Grand Canyon	15.00
Great Lakes	15.00
Lancaster	15.00
Morocco Rose	15.00
Mountain Sky	15.00
Ormohr	15.00
Snow Flurry	15.00
Venus de Milo	15.00
Wabash	15.00
War Eagle	15.00
Winneshie	15.00
Collection of 10 units of 10 each, either Iris or Hemerocallis, or both	\$15.00

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**PERRY, O.**

## HARDY PLANTS Bulbs and Shrubs

"America's Finest"

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## SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the whole-sale trade only.

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## ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants  
 Finished Stock  
 Send for price list.

## FASTIGIATE IRISH JUNIPERS

We have a good supply of beautiful 3 to 4-ft. plants, reasonably priced. Also other evergreens in salesyard sizes.

**FIKE NURSERIES**  
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# TAXUS.....

Our Taxus are especially nice this season—compact, dark green and three times transplanted. Varieties include: Cuspidata, Media, Capitata, Hatfieldi, Hicksi, Browni and Repandens.

*We have an outstanding collection of:*

- ORNAMENTAL PLANTS
- SHRUBS
- FLOWERING TREES
- SHADE TREES

Write for price list.

Visit our nurseries  
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4400 Reading Rd.

Cincinnati 29, Ohio

## ASK DATA ON DR. BAILEY

Appeal is being made for material relating to the life and activities of Liberty Hyde Bailey, for photographs, anecdotes, letters and similar items. The Cornell University archives needs these for immediate use as well as for permanent preservation.

At present two Bailey biographical projects are under way, the approach to which will be different. Prof. G. H. M. Lawrence, a former student and colleague of Dr. Bailey and present director of the Bailey Hortorium, is under contract with the Macmillan Co. to do a biography of Dr. Bailey. Professor Lawrence has been collecting materials for a number of years and has been given manuscripts by the family. He expects to begin on his study in the near future. Philip Dorf, author of the recent biography of Ezra Cornell, "The Builder," is doing a book length pen portrait of Dr. Bailey, with emphasis on Dr. Bailey as a personality.

"Unfortunately, the Cornell University archives has among its holdings very little Bailey material," states Mrs. Edith M. Fox, curator and university archivist. "Dr. Bailey had not preserved much of his own correspondence. Some years ago,

before the archives was established, a flash flood on the campus was responsible for the destruction of a considerable volume of his correspondence relating to the Nature Study Club. The herbarium contains some manuscript material, but its emphasis is upon printed material and exhibits. We have been conscious of the lack of Bailey materials for some time and have endeavored to collect them in line with our general activities but, until the immediate need was felt, we did not start a special project. We are now contacting a large number of people who may have some information about Dr. Bailey, hoping that in this way we may augment our Bailey materials. Of course, any information we receive will be available to both biographers and to other interested persons."

Any reader who can respond to this appeal should address Mrs. Edith M. Fox, Cornell University Library, Ithaca, N. Y.

DR. PAUL W. OMAN, United States Department of Agriculture expert on leaf hoppers, has been named leader of the division of insect detection and identification, bureau of entomology and plant quarantine.

## TAXUS and JUNIPERUS

Spreading and Upright

Lining-out and B&B

OPERATED BY HOLTON & HUNKEL CO.  
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## ORNAMENTALS

TREES SHRUBS  
EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

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## Hardy Northern Grown Stock at WHOLESALE

### JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

#### GARDEN CLUBS PROMOTE BLUE STAR HIGHWAY

All states except New York, Utah and New Mexico have completed memorialization of approximately 16,000 miles of Blue Star Memorial highway, a project promoted by the National Council of State Garden Clubs. Memorialization was designated in Arizona, Illinois, Missouri, Ohio and Texas by administrative action, in all other states by legislative action.

The Blue Star project, as originally planned, has been completed in Michigan, New Hampshire and Indiana. States reporting completion of many roadside parks and turnouts in which markers are installed are Alabama, Colorado, Connecticut, Florida, Georgia, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Michigan, Missouri, Montana, Nebraska, New Hampshire, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, Washington and Wisconsin.

States reporting a definite number of "model miles" developed along the Blue Star route are New Jersey, seven miles; New Hampshire, 22; Massachusetts, five, and Rhode Island, 15. These states, and also Pennsylvania, Georgia, Louisiana and Colorado, have zoning protection on a limited number of miles.

All states in which Memorial highway is designated by legislative or administrative action have purchased markers, except Arizona and West Virginia. Arizona is raising funds for the project; West Virginia is awaiting construction of a new highway. One hundred and ninety large Blue Star markers and 34 small or intermediate markers have been purchased. Markers are distributed among the states in the following numbers: One marker—Connecticut, Massachusetts, Mississippi, South Dakota; two markers—Illinois, Nebraska, Rhode Island, Pennsylvania; three markers—Alabama,

#### NONE BETTER

##### TAXUS CUSPIDATA

There is no doubt that *Taxus cuspidata* is one of the finest evergreens or that *ILGENFRITZ Taxus cuspidata* are as fine as can be found anywhere. We do not ask you to take our word—place a trial order and be convinced.

##### EUONYMUS FORTUNEI COLORATUS

This is one of the more colorful forms of *Euonymus* with its evergreen leaves, dark purple above and lighter beneath. It will climb or will make an excellent ground cover. It can be supplied either bare-root or potted. Write for prices.

##### PROTECT YOUR STOCK

Spraying with PLANTECT will protect new growth and will insure delivery of your stock in the best condition. Your customers will be better pleased and your replacements will be decreased. It will increase your catch of transplanting.

##### PRICES:

1 gallon .....	\$ 6.60
5 gallons .....	30.75
52-gallon drum .....	286.00

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#### ILGENFRITZ NURSERIES, INC.

The Monroe Nursery

MONROE, MICH.

*Minnesota Grown*

**FLOWERING CRABS  
ORNAMENTAL TREES  
and SHRUBS**

Fruit Trees and Berries  
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Complete Selection  
of Fine Roses  
Write for our Free Wholesale Catalog

*Andrews*

NURSERY COMPANY

SINCE 1872  
FARIBAULT, MINN.

#### NEW PUSSY WILLOW SILVER CLAW

(Mutabilis Selection)  
Excellent low-growing, extremely early-foreing variety. Catkins are long and slightly curved around stem when fully developed. Ideal florists' variety.

\$1.00 each.

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#### NORTHERN-GROWN STOCK

Evergreen Liners  
Bleeding Hearts  
Ornamental Shrubs  
Fruit Trees  
French Lilacs  
Philadelphus Minnesota Snowflake  
(Plant Patent No. 538).  
Send for list.

**J. V. BAILEY NURSERIES**  
ST. PAUL 6, MINNESOTA

**WHOLESALE GROWERS  
OF HARDY STOCK  
FOR THE NORTHWEST**

**SUMMIT NURSERIES**  
Stillwater, Minn.

#### MAGNOLIAS FOR SPRING

600 *Magnolia Nigra*, 2 to 3 ft., B&B,  
\$2.85 ea.  
200 *Magnolia Nigra*, 3 to 4 ft., B&B,  
\$3.75 ea.

Order Now!

**LITTLEFORD NURSERIES**  
VINCENNES, IND.



Growers of

# QUALITY EVERGREENS

SEEDLINGS and TRANSPLANTS

Write for complete 1953 price lists for fall delivery.

**NEPCO LAKE NURSERY . . . . . Member A. A. N.**

**Nekoosa-Edwards Paper Company • Port Edwards, Wisconsin**

Iowa, New Hampshire, New Jersey, Louisiana, Tennessee; four markers—Arkansas, Colorado, Kansas, Kentucky, Maine, Maryland, Oklahoma, Vermont, Washington; five markers—Ohio, Michigan; six markers—Indiana, Montana, Oregon, Wisconsin; seven markers—Florida, South Carolina, Texas; eight markers—Georgia; 10 markers—California, Missouri; 12 markers—Virginia; 29 markers—North Carolina. Of the small markers, Pennsylvania has 25, Oklahoma five, Oregon one and Louisiana three.

Markers are installed at places such as state boundary lines, intersections of highways, roadside parks, scenic turnouts, honor parks and at roadsides without turnouts. In Maryland a marker is placed at each end of the new Chesapeake bay bridge. The Massachusetts marker and plantings are on the center strip between traffic lanes. States reporting markers installed in natural settings are Maine, Michigan, South Dakota, Colorado and Montana.

The majority of marker sites are beautifully landscaped, many being extensively planted. Much native material was incorporated in the plans. Pennsylvania garden clubs contributed 6,000 dogwood trees for memorial planting. In Tennessee,

5,000 redbud and dogwood trees were planted. North Carolina is featuring dogwood trees and crape myrtle. Ohio recently contributed \$2,500 for a planting project in which 734 trees, including 400 flowering trees, are to be planted. Other states reporting special effort toward landscaping with native trees and shrubs are Colorado, Georgia, Louisiana, Massachusetts, Missouri, Michigan, Oregon and South Carolina.

Garden club members contribute to the funds for development of the Blue Star project through their clubs, their regions and individually. Federated garden clubs, large and small, are working toward completion of this project under the far-flung banner of the national council.

## GLADIOLUS ANNUAL

The New England Gladiolus Society has published the 28th annual edition of "The Gladiolus," for distribution to members of the society. The book consists of 260 pages this year and includes data on variety ratings and registration and articles on trial garden reports, judging, hybridizing, pests and diseases, growing methods, sales and exhibitions.

## FLOWERING SHRUBS

	Per 100	Per 1000
<b>Hydrangea Paniculata Grandiflora</b>		
(Peegee Hydrangea)		
4 to 6 ins., 1-yr., C.....	\$ 5.00	\$ 40.00
6 to 12 ins., 1-yr., C.....	6.00	55.00
12 to 18 ins., 1-yr., C.....	8.00	75.00
12 to 18 ins., 2-yr., well-br. ....	9.50	90.00
18 to 24 ins., 2-yr., well-br. ....	20.00	150.00
2 to 3 ft., 2-yr., well-br. ....	25.00	....
<b>Spiraea Vanhouttei (Van Houtte Spiraea)</b>		
6 to 12 ins., 1-yr., C.....	3.50	30.00
12 to 18 ins., 1-yr., C.....	4.50	40.00
12 to 18 ins., hedging....	6.00	55.00
18 to 24 ins., 2-yr., well-br. ....	16.00	150.00
2 to 3 ft., 2-yr., well-br. ....	25.00	....
<b>Cornus Florida (White-flowering Dogwood)</b>		
2 to 3 ft., 3-yr., well-br....	\$ 4.50	\$ 40.00
3 to 4 ft., 3-yr., well-br....	6.50	60.00
4 to 5 ft., 3-yr., well-br....	11.00	100.00
<b>Tilia Americana (American Linden)</b>		
2 to 3 ft., 3-yr., well-br....	3.00	25.00
3 to 4 ft., 3-yr., well-br....	4.00	35.00
4 to 5 ft., 3-yr., well-br....	6.00	50.00
5 to 6 ft., 3-yr., well-br....	8.00	75.00
6 to 8 ft., 3-yr., well-br....	11.00	....

Per 10 Per 100

## NATIVE EVERGREENS

### Collected Stock

<b>Rhododendron Maximum, Kalmia Latifolia, Ilex Opaca, Tsuga Canadensis</b>		
	Per 100	Per 1000
3 to 6 ins., S.....	\$2.50	\$20.00
6 to 9 ins., S.....	3.50	30.00
9 to 12 ins., S.....	5.50	50.00
12 to 18 ins., S.....	7.00	65.00

## CUMBERLAND PLATEAU NURSERY

Route 1

CROSSVILLE, TENN.

<b>350</b>	Heavy Taxus	<b>Hicksi</b>	4 to 4½ ft. high, B&B, 26 to 30-in. spread.....	<b>\$13.00</b>
<b>500</b>	Heavy Taxus	<b>Hatfieldi</b>	3 to 3½ ft. high, B&B, 22 to 30-in. spread.....	<b>9.50</b>
<b>MEDIA NO. 1</b> , 30 to 36 ins., B&B, <b>\$7.00</b>			<b>INTERMEDIA</b> , 36 to 42 ins., B&B, <b>\$10.00</b>	
<b>OREGON NURSERY</b> ROSSFORD, OHIO			Toledo Phone Walbridge 2170 Perrysburg 4-6832	Nursery is on Oregon Rd. Rossford is near Toledo

## REPORT ON HEMLOCK STUDY

The best growth of eastern hemlock seedlings has followed moderate chilling to break dormancy and short night lengths and moderate temperatures during the growing season. Dr. Hans Nienstaedt and Dr. Jerry S. Olson, of the Connecticut agricultural experiment station, New Haven, reported this before the Ecological Society of America, which met recently at Madison, Wis.

This study of day length and temperature factors affecting hemlock growth is only part of a comprehensive study of this species by the Connecticut scientists. By artificially controlling day length and temperature, they are growing small hemlocks indoors at any season of the year and are making continuous studies of other factors affecting their growth. Such studies should eventually help foresters to favor reproduction and growth of this timber tree, which is gaining in importance in the northeast. Moreover, testing seedlings indoors under controlled conditions speeds up selection and breeding of tree varieties.

Doctors Nienstaedt and Olson established that the breaking of dormancy requires either prechilling or short nights and is more rapid with both. Seedlings which were unchilled and grown under dark periods of 12 or 16 hours never broke dormancy at all. Those grown on long nights, but which had been chilled beforehand, broke dormancy but soon went back into the dormant state. Chilled seedlings subjected to short nights started growth promptly and continued to grow well. Seedlings subjected to short nights, but which were unchilled, were late in breaking dormancy but eventually grew well.

To show that it was length of the dark period rather than duration or intensity of light which controlled these differences, the experiment station men kept some seedlings under short days, but interrupted the long nights once or twice by turning

## SELLING OUT

We are disposing of our nursery business and remaining stock. This is all specimen stock.

215 Hicks' Yew, 2½ to 3-ft. spread, 5 ft. high.....	Each \$12.50
(Price if you dig, \$10.00)	
210 Euonymus Alatus Compactus, 3 to 4-ft. spread, 4 to 6 ft. high.....	10.00
(Price if you dig, \$7.50)	
196 Spreading Yew, 3½ to 5 ft. high.....	10.00
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HEMLOCKS — DEUTZIA GRACILIS  
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on dim lights. By dividing the long dark period into several short ones, they found the plants grew about the same as others under short nights.

Nurserymen may find an immediate use of these results by interrupting the night with a few short periods of weak light over their seedbeds.

In temperature experiments, Doctors Nienstaedt and Olson found that hemlocks grew extremely well if temperatures were kept at 60 degrees to 75 degrees Fahrenheit at all times. Plants did not grow nearly as well at a 90 degree daytime temperature unless relieved by considerably lower temperatures during the night. Night time temperatures of 45 degrees Fahrenheit slowed down growth if day temperatures were higher and did not quite prevent growth even if day temperatures were low. Unfavorable growth at high temperature may explain in part why this northern species does not grow where average summer maximum temperatures exceed 100 degrees Fahrenheit.

### LIQUID FERTILIZER TEST

Nurserymen probably waste time and money if they apply complete liquid fertilizers to foliage of crops that received recommended fertilization at planting time.

H. J. Mederski, Ohio agricultural experiment station agronomist, recently reported two years' work with liquid fertilizers on corn, wheat, oats and alfalfa. He used liquid 5-10-5 fertilizer on these crops which had received recommended rates and grades of conventional fertilizers at planting time. In each case, Mr. Mederski found that there was no improved plant development or higher crop yields.

In all tests, workers diluted liquid fertilizer with water before application. They used boom-type sprayers to spray small grains and hay. Corn was sprayed with a hand-directed nozzle in insure thorough coverage. Applications, which followed manufacturers' suggested rates, were made at varying times during the season to check the effectiveness at different stages of growth.

Previously, the station tested complete liquid fertilizers as a seed treatment. Here also, no benefits were noted.

"Maintaining high soil fertility levels with adequate fertilization is always necessary," Mr. Mederski said. "We do not recommend starving a crop to the point where liquid fertilizer on the foliage would give an appreciable response."

## EVERGREENS FOR THE MIDWEST

Fall, 1953 — Spring, 1954

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Heavy sheared stock.	Each
15 to 18 ins.	\$2.25
18 to 24 ins.	3.00
24 to 30 ins.	3.75
30 to 36 ins.	4.25
3 to 3½ ft., extra nice.	5.00

#### BLUE HETZ JUNIPERS.

Heavy sheared stock.	
18 to 24 ins.	2.75
24 to 30 ins.	3.50
30 to 36 ins.	4.25
3 to 4 ft., extra nice.	5.00

#### COMPACT PFITZER JUNIPERS.

A good compact type.	
15 to 18 ins.	2.50
18 to 24 ins.	3.00
24 to 30 ins.	3.75
30 to 36 ins.	4.50

#### DUNDEE JUNIPERS. Grafts.

3 ft.	3.00
3 to 4 ft.	4.00

#### GLAUCA JUNIPERS.

Grafts; extra heavy.	
3 to 4 ft.	4.00
4 to 5 ft.	5.00

#### IRISH JUNIPERS. Heavy

2½ to 3 ft.	2.00
3 to 4 ft.	2.50

### JUNIPERS (continued)

#### ROCKY MOUNTAIN JUNIPERS.

Seedlings.	Each
3 ft.	\$2.50
3 to 4 ft.	3.25

### TAXUS

#### TAXUS HICKSI.

Heavy grade.	
15 to 18 ins.	3.00
18 to 24 ins.	4.00
24 to 30 ins.	4.75

#### TAXUS HATFIELDI.

15 to 18 ins.	3.00
18 to 24 ins.	4.00
24 to 30 ins.	4.75

#### TAXUS BROWNI.

Dense globes.	
12 to 15 ins.	2.75

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	Per 100	Per 1000
Biota bakeri, 2-yr., XX, field, 6 to 8 ins.	\$25.00	\$225.00
2-yr., XX, field, 8 to 12 ins.	27.50	250.00
2¼-in. pots, 6 to 8 ins.	22.50	200.00
Biota bonita, 2-yr., XX, field, 4 to 6 ins.	25.00	225.00
Biota bonita, 2-yr., XX, field, 6 to 8 ins.	27.50	250.00
Biota conspicua, 2-yr., XX, field, 6 to 8 ins.	25.00	
Ilex crenata bullata, 2¼-in. pots.	15.00	120.00
Jasminum floridum		
Jasminum nudiflorum, 2-yr., XX, field, 8 to 12 ins.	20.00	150.00
2-yr., XX, field, 12 to 18 ins.	25.00	225.00
2-yr., XX, field, 18 to 24 ins.	35.00	300.00
Juniperus chinensis albo-variegata, 1-yr., field, 6 to 8 ins.	15.00	120.00
Juniperus chinensis kosteriana, 1-yr., field, 6 to 8 ins.	15.00	120.00
Juniperus communis ashfordi, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus communis ashfordi, 2-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus communis cracovia, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus communis fastigiata, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus communis fastigiata, 1-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus communis hibernica, 1-yr., field, 6 to 8 ins.	10.00	85.00
1-yr., field, 8 to 12 ins.	12.00	100.00
2-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus communis kiyonoi, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus communis kiyonoi, 1-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus communis sylvestris, 2¼-in. pots.	17.50	150.00
Juniperus excelsa stricta, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus excelsa stricta, 1-yr., field, 8 to 10 ins.	15.00	120.00
Juniperus glauca hetzi, 2¼-in. pots.	15.00	120.00
Juniperus horizontalis plumosa, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus horizontalis plumosa, 1-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus sabina Von Ehron, 1-yr., field, 6 to 8 ins.	12.00	100.00
Juniperus sabina Von Ehron, 1-yr., field, 8 to 12 ins.	15.00	120.00
Juniperus virginialis, 1-yr., field, 6 to 8 ins.	15.00	120.00
Photinia glabra, 2¼-in. pots, 6 to 8 ins.	15.00	120.00

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## HEMLOCK SPECIMENS AND LINERS

100	<i>Tsuga canadensis</i> , 2½ ft.	\$ 2.50
100	3 ft.	3.25
200	3½ ft.	3.75
200	4 ft.	4.50
100	4½ ft.	5.50
50	5 ft.	6.50
50	6 ft.	10.50

These are heavy, sheared specimens with this season's growth still untrimmed.

### TSUGA CANADENSIS POTTED LINERS

2000	4 to 6 ins., from 2½-in. pots.	22c
1000	8 to 12 ins., from 2½-in. pots.	27c
100	10 to 12 ins., from 3-in. pots.	40c

These liners were root-pruned and top-pruned when potted last winter. They are open to the sun and have undergone one recent frost.

### OTHER SPECIMEN ITEMS INCLUDE:

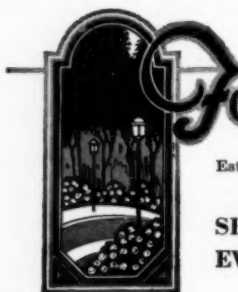
150	<i>Buxus sempervirens</i> , 15 to 18 ins.	\$2.00
150	<i>Buxus sempervirens</i> , 18 to 24 ins.	4.00
200	<i>Rhododendron carolinianum</i> , pink, nursery-grown, heavy, 12 to 18 ins.	2.25
500	<i>Rhododendron carolinianum</i> , pink, nursery-grown, heavy, 24 to 30 ins.	3.25
150	<i>Rhododendron catawbiense</i> , nursery-grown, heavy, 24 to 30 ins.	3.00
35	<i>Rhododendron catawbiense grandiflora</i> , 15 to 18 ins.	4.00
	<i>Rhododendron</i> hybrid seedlings, mostly lilac shades, 12 ins.	1.75

*Taxus*, *Thuja*, *Juniperus*. . . . . Write for complete list.

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## Book Reviews

### THE SPICE OF LIFE

Herb gardening is again in vogue, and coming on the heels of its new-found popularity is a valediction by Helen M. Fox, a climax to Mrs. Fox's 30 years of herb growing and a welcome to beginners. "The Years in My Herb Garden," published by the Macmillan Co., New York, and priced at \$3.95, is a record and an index to the fascinating hobby or business of herb gardening. Within the 185 pages are 32 full-page illustrations of garden plots, views of gardens and close-ups of particular plants.

The various herbs have been divided up into related groups, a listing of which is given after each chapter heading. Included in each chapter are recipes, historical significance, uses, habits of growth and cultivation. Herblike plants are also included, and at the back of the fully indexed book are more recipes and definitions. After finishing the volume, the least impressionable reader would undoubtedly be aroused to herb gardening by Mrs. Fox's subtle urging, and he must understand why the author considers herb gardening not merely a hobby, but a way of life.

### "PHILIPPINE ORCHIDS"

Two orchid experts, Reg S. Davis and Mona Lisa Steiner, collaborated in the writing of "Philippine Orchids." Published in 1952 by William Frederick Press, New York, the 270-page volume contains a detailed discussion of about 100 species of orchids native to the Philippine islands, including the popular cymbidium, cypripedium, phalaenopsis and vanda types. Its price is \$5. The book has many black and white illustrations and a good glossary and index.

### GREENER PASTURES

Improvement of pasture techniques has received serious attention only in the past few decades and after the vanishing of the frontier. R. H. Lush, in his new 193-page volume, "Pasture Production and Management," published by the Blakiston Co., New York city, has compiled the results of new research and all practical information on the subject.

The fully - illustrated volume, which is priced at \$3.75, is primarily a textbook, but could also be used as a manual for the fieldman, seeds-

man, extension and soil conservation worker, farm manager and others in allied fields. Chapters on irrigation, management, maintenance, soil improvement, seed production, grassland pests, fertilization and many others succeed in presenting a full and complete discussion of pastures.

### TREE GUIDE

The fifth book in the golden nature guide series of Simon & Schuster, Inc., New York city, is "Trees," subtitled "A Guide to Familiar American Trees." The pocket-size (4x6-inch), 160-page volume was written by Herbert S. Zim, Ph.D., and Alexander C. Martin, Ph.D., and contains 130 handsome full-color illustrations by Dorothea and Sy Barlowe. The pictures show tree shapes and typical habitats, with details of twigs, buds, bark, leaves, seeds and flowers. The trees are categorized as to leaf shapes. An excellent introductory section suggests uses to which the book may be put, such as a guide in field study, in collections and in tree census-taking.

Two editions of the book are available; the one that is soft-bound is \$1, the cloth-bound edition is \$1.50. This extraordinary little guide should aid the average American in a fuller appreciation of the American landscape.

### CYCLAMEN PERSICUM

Stanford University Press, Stanford, Calif., last year published a paper-bound edition of "Cyclamen Persicum, Its Natural and Cultivated Forms," by Walter C. Blasdale. Mr. Blasdale's study of the cyclamen covers its botanical relationships and geographical distribution; the distinctive characteristics of its root and foliage system; the silverying and coloring of the leaves; the flowers and seeds of the genus; its life cycle, and the cultivation of its various strains. A bibliography and a number of photographs and line drawings are included in the book, which sells for \$1.50.

### YEARBOOK OF AGRICULTURE

The United States Department of Agriculture has announced publication of the 1953 yearbook of agriculture entitled "Plant Diseases."

The new yearbook describes the causes and control of hundreds of diseases of crop plants. Included is a 32-page section of color photographs designed to help readers identify many of the more important diseases.

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### QUALITY STOCK

	Each
Chinese Elm, 1-in. caliper, 8 to 10 ft.....	\$1.00
Purpurea Honeysuckle, sheared globes, B&B, 18 to 24 ins.....	1.00
Euonymus Radicans, 12 to 18 ins.....	1.00
Compact Green Globe Arborvitae, 24 to 30 ins.....	1.00
Juniperus Virginiana, sheared dense, 30 to 36 ins.....	1.00
Chinese Arborvitae, sheared one time, 3 to 4 ft.....	1.00

Truckloads at nursery.

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(EL PASO, LUBBOCK, AMARILLO, ALBUQUERQUE).

Of course we will deliver to most other places, too, but these we go to more frequently. Drop off shipments can be made to nurseries between Scottsville and these cities. Write for price list and details.

**VERHALEN NURSERY**  
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of plant diseases is that they cost us an estimated three billion dollars a year," says Secretary of Agriculture Ezra Taft Benson in a foreword. "The tragic aspect is that much of the loss is a waste that can be prevented." He points out, however, that some of the diseases will not be easy to conquer. "New diseases and new races of old disease-producing organisms appear all the time. The cost of materials and equipment for fighting the diseases has become enormous. And, finally, our efforts against plant diseases are made harder by the lack of information about them among many persons who have to do with plants and plant products."

"Plant Diseases" begins with discussions of the bacteria, fungi, nematodes, parasitic seed plants and environmental difficulties that cause plant diseases. Chapters about the methods of controlling diseases, with particular emphasis on breeding disease-resistant plants, follow. The rest of the book describes specific diseases of crops, with chapters on grasses and legumes, cotton, food and feed grains, vegetable crops, sugar crops, tobacco, ornamentals, fruits and nuts, and other plants such as shade trees, herbs, flax and coffee.

The yearbook is produced in the Department of Agriculture as a Congressional document. Its main distribution is by members of the Senate and House of Representatives. Copies are also for sale at \$2.50 by the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

MRS. WILBURTA BRASIAL resigned her position with the Martin Nursery, Castro Valley, Calif., and is now employed as designer and salesperson with the Dalgety Florists, Hayward, Calif.

HAMILTON FISH, landscape architect, is operating the Elliot Nursery, at Los Gatos, Calif. This nursery, which was founded many years ago, was closed for some time.

## CORNUS FLORIDA RUBRA FLOWERING CRAB APPLE

For Fall, 1953—Spring, 1954 To the Wholesale Trade

CORNUS FLORIDA RUBRA (Red-flowering Dogwood)		Per 100
2 to 3 ft., puddled		\$125.00
18 to 24 ins., puddled		100.00
12 to 18 ins., puddled		80.00
6 to 12 ins., puddled		60.00
FLOWERING CRAB APPLE Eleyi, Floribunda, Hopa and Red Silver		
5 to 6 ft., 2-yr., br.		100.00
4 to 5 ft., 2-yr., br.		90.00
3 to 4 ft., 2-yr., br.		60.00
3 to 4 ft., 1-yr., whips		50.00
2 to 3 ft., 1-yr., whips		40.00
18 to 24 ins., 1-yr., whips		35.00

Also a general line of nursery stock. Catalog sent on request.

We would like to have you visit our nursery.

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McMINNVILLE, TENN.

## GRAFTING UNDERSTOCKS

	Per 1000
Juniperus Virginiana, 2-yr., S., 1/4 to 3/4-in. cal.	\$95.00
Chinese Arborvitae, 2-yr., S., 1/4 to 3/4-in. cal.	45.00

Bare-root, from undercut seedbeds, puddled, moist-packed.

**LUKE NURSERY**

**PAULS VALLEY, OKLA.**

## CHINESE CHESTNUT TREES

Seedlings Grafted Trees

We offer only the Peter Lui strain of Chinese Chestnut trees which produced the Nanking, Meiling and Kuling varieties. We give you the advantage in price of our long growing season and cheap labor in addition to the proven quality of our trees. Your inquiries are invited.

**LEELAND FARMS**  
LEESBURG, GA.

## CUSTOMER APPEAL!

Our Chinese Elm Have It.

	Each
Well-branched, root-pruned, with straight stems.	
5 to 6 ft.	\$0.75
6 to 8 ft.	1.00
8 to 10 ft.	1.50

Packing free for cash with order!

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DECHERD, TENN.

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All-America Rose Selections and Favorite Standard Varieties. Quality stock, uniform grades, carefully packed. ARP is one of Texas' oldest and largest rose growers. Thirty years' service to the nurserymen, florists and dealers. Private rail spur and unexcelled refrigeration—1200 acres nursery stock, preparation and shippers—dependable, personal, wholesale service.

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Evergreens, Trees  
Deciduous Shrubs, Roses  
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Azaleas, Camellias  
and Magnolias  
our  
specialties.  
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### MOLES AID RODENTS

Ground moles are enemies of gardeners, not because they eat bulbs and plant roots, but because they unwittingly aid rodents that do.

R. K. Davis, extension wildlife conservationist at Ohio State University, recently asserted that the mole's bad reputation comes from cutting through obstructions in his tunneling, and because his tunnels, once established, are used by a lot of bad company. Field mice and other rodents that actually do the gnawing use mole tunnels as highways for their burglary operations.

Moles do not eat plant roots and bulbs, said the specialist. They are insectivorous, feasting upon ants, millipedes, centipedes, sow bugs, earthworms and snails, to name a few. They may even feed upon some of man's insect pests, but are not as efficient as insecticides, said Mr. Davis.

Until moles became unpopular in lawns and flower gardens, they probably were beneficial animals. "Then man came along to disturb the balance in nature," Mr. Davis said. "By his curious set of standards, the mole was judged undesirable."

Mole tunnels leave ridges in lawns and tear grasses from their roots so that they die. Tunnels also stop lawn mowers and dull the blade.

Although trapping is most effective to get rid of moles, it requires patience, according to Mr. Davis. Research has not discovered good repellents as yet. There is more hope for poisons than repellents.

A number of poisons have been tested at the university, of which thallium-treated peanuts were most effective.

### REPORT ON INSECTICIDES

A report on commercial insecticides and fungicides, giving results of analyses of such materials made by the Connecticut agricultural experiment station, New Haven, during the past 10 years, has recently been published. It is the first such report to be issued since 1942.

Although the station is legally charged with the analysis of chemicals used to control plant insect pests and diseases, no specific appropriation is made for the collection and analysis of samples. Thus, a complete survey of the field is not made each year, as is the case with fertilizers and livestock feeds, and reports are issued only at intervals of several years.

The present report includes results of analyses of 210 samples.

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# LINERS

**FALL, 1953  
SPRING,  
1954**



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Night Phone 82-5680 **RICHMOND 25, VA.**

## PINK FLOWERING DOGWOOD

	Per 10	Per 100	Per 1000
12 to 18 ins., 1-yr.....	\$ 9.00	\$ 85.00	....
18 to 24 ins., 1-yr.....	12.50	100.00	....
2 to 3 ft., 2-yr.....	17.50	150.00	....
3 to 3½ ft., 2-yr.....	30.00	250.00	....
3 to 4 ft., 2-yr.....	40.00	350.00	....
4 to 5 ft., 2-yr.....	60.00	....	....

Write for our new, descriptive wholesale catalog.

**Boyd Nursery Co., McMinnville, Tenn.**

**BEGINNING IN THE NURSERY BUSINESS**, by J. J. Pinney.  
Complete series of articles. **50c.** American Nurseryman, Chicago 4, Ill.

## CONIFEROUS EVERGREENS

**Fir—Balsam, Douglas  
and Nordman,**

	1 to 10 Each	10 and up Each
2 to 2½ ft.	\$ 3.50	\$ 3.25
2½ to 3 ft.	4.25	4.00
3 to 4 ft.	5.50	5.25
4 to 5 ft.	7.00	6.75

**Hemlock, Canadian,**

	1 to 10 Each	10 and up Each
18 to 24 ins.	2.50	2.25
2 to 2½ ft.	3.25	3.00
2½ to 3 ft.	4.50	4.25
3 to 4 ft.	5.50	5.25
4 to 5 ft.	8.00	...

**Juniper—Andorra and**

**Blue Heltz,**

	1 to 10 Each	10 and up Each
15 to 18 ins.	2.50	2.25
18 to 24 ins.	3.00	2.75
2 to 2½ ft.	3.50	3.25
2½ to 3 ft.	4.25	4.00
3 to 4 ft.	5.25	5.00

**Juniper, Irish,**

	1 to 10 Each	10 and up Each
18 to 24 ins.	1.75	1.50
2 to 2½ ft.	2.25	2.00
2½ to 3 ft.	3.00	2.75

**Juniper, Pfitzer,**

	1 to 10 Each	10 and up Each
15 to 18 ins.	2.75	2.50
18 to 24 ins.	3.25	3.00
2 to 2½ ft.	4.00	3.75
2½ to 3 ft.	4.75	4.50
3 to 3½ ft.	6.00	5.75
3½ to 4 ft.	8.50	...
4 to 5 ft.	20.00	...

**Pine, White,**

	1 to 10 Each	10 and up Each
2 to 3 ft.	3.25	3.00
3 to 4 ft.	4.50	4.25
4 to 5 ft.	6.25	6.00

**Spruce—Norway and White,**

	1 to 10 Each	10 and up Each
18 to 24 ins.	2.25	2.00
2 to 2½ ft.	2.75	2.50
2½ to 3 ft.	3.50	3.25

**Taxus Hatfield,**

	1 to 10 Each	10 and up Each
15 to 18 ins.	3.00	2.75
18 to 24 ins.	4.00	3.75
2 to 2½ ft.	5.75	5.50

**Taxus Hicks,**

	1 to 10 Each	10 and up Each
15 to 18 ins.	3.00	2.75
18 to 24 ins.	3.75	3.50
2 to 2½ ft.	4.75	4.50
2½ to 3 ft.	6.25	6.00
3 to 3½ ft.	7.75	7.50
3½ to 4 ft.	11.00	10.00
4 to 5 ft.	15.00	14.00

**Taxus cuspidata,**

	1 to 10 Each	10 and up Each
15 to 18 ins.	3.25	3.00
18 to 24 ins.	4.00	3.75
2 to 2½ ft.	5.25	5.00

## BROAD-LEAVED EVERGREENS

**Buxus Sempervirens,**

	Per 10	Per 100
T., 6 to 8 ins., puddled.	\$ 3.00	\$ 25.00
T., 8 to 10 ins., puddled.	4.50	40.00
T., 10 to 12 ins., puddled.	6.50	60.00
T., 12 to 15 ins., puddled.	8.50	80.00

T., 15 to 18 ins., light balls

T., 18 to 21 ins., light balls

T., 21 to 24 ins., B&B, specimens

**Ligustrum lucidum,**

18 to 24 ins.

2 to 3 ft.

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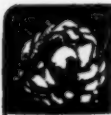
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**SEMME  
NURSERIES**

**AZALEAS - CAMELIAS**  
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

## PLANT GALL BULLETIN

One of the most complete studies ever made of a plant gall is reported in a new bulletin of the Connecticut agricultural experiment station. The author is Dr. George H. Plumb, formerly an entomologist at the Connecticut station, who chose the Norway spruce gall as the subject for his research.

Galls on plants bear a certain resemblance to cancer in animals. They are abnormal, misshapen growths which develop in plant tissue in response to some stimulus outside the plant. Galls can be caused by bacteria, fungi, insects, mites and a number of other plant and animal organisms. The Norway spruce gall is caused by an insect, a fact that has been known for a long time. It had not been known previously, however, just how this insect makes a gall and where it begins its action.

Dr. Plumb found that the galls evolve from the cells of the stem and the needle-stalklet. He also found definite proof that it is extracts from the insects' salivary glands that cause the gall formation to begin. Dr. Plumb describes in minute detail the changes that take place in plant cells as a result of gall formation and development.

Copies of the bulletin are available to those interested on written request to the Connecticut agricultural experiment station, P. O. Box 1106, New Haven, for Bulletin 566, "The Formation and Development of the Norway Spruce Gall Caused by *Adelges abietis* L."

## PRUNING EVERGREENS

Some elementary pointers on pruning evergreens are offered in circular 708, "Pruning Narrowleaf Evergreens," published by the University of Illinois college of agriculture extension service. The work covers its topic in eight pages and is divided into three sections: Pruning of trees the branches of which grow in whorls around the main stem, such as pines, spruces and firs; trees characterized by buds and branches not growing in this way, such as junipers, yews, arborvitae, hemlocks and chamaecyparis, and evergreen hedges. The text is aided by detailed line drawings, which picture both correct and incorrect pruning effects.

"Pruning Narrowleaf Evergreens" was written by H. R. Kemmerer, extension specialist in landscape gardening, and may be obtained by writing the extension service at Urbana, Ill.

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**Wight NURSERIES** CAIRO, GA.

## ETHICS IN THE NURSERY BUSINESS

[Continued from page 14]

in the industry. "Lawyers are shy-sters" is a familiar phrase, only because there are some shy-sters among lawyers. This thing called "the public mind," about which the hucksters so glibly banter, is a real and important thing. Is it justice for the unscrupulous 1 per cent to detract from the public esteem of the other 99 per cent?

The second point I should like to make is that, while example is good, the trade association is the only effective means of raising the level of an industry's ethics or the level of moral principles within the trade.

Government has some part, but of what value is a cease and desist order from the federal trade commission in, say, February, when it concerns bulb sales of the previous year and the object of FTC scorn already has another name and a large stock of wild roses to peddle as mountain-collected something-or-other? While we may sometimes be able to translate our idealism legislatively, no government can control the ethics of business—it can only harass the most conspicuous offenders. The job can be done only by us as individuals and in association.

### Are We Militant Enough?

Here we might consider whether we are sufficiently militant and aggressive. When somebody is playing fast and loose with the truth, a horticulture professor, or botanist or museum curator issues a warning to the public which the newspaper is glad to publish on its garden page. The public should be privileged to read oftener the story beginning, "A warning was issued to the public today by the Wisconsin Nurserymen's Association regarding claims made by . . ." or "The A. A. N. in a statement today advised the public to beware . . ."—each ending with the suggestion to deal only with the local member of the association who, by his membership, can be relied upon.

It must be admitted that, by its nature, the nursery industry is inviting to the scoundrel. Sales are bunched in one season of the year, so that it is easy to operate a hit-and-run trade. A killing can be made in small items. The fur trade has cleaned up its labeling, and, if you buy a sweater, the percentage of processed wool appears on the label. But many items in the nursery trade

# EVERGREENS

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American Arborvitae (Sheared)  
American Pyramidal Arborvitae  
American Globe Arborvitae  
Cedrus Deodara  
Juniper, Irish  
Juniperus Andorra

Juniperus Excelsa Stricta  
Juniperus Fastigiata  
Juniperus Pfitzeriana  
Juniperus Pfitzeriana Compacta  
Juniperus Pfitzeriana Nana  
Juniperus Sabina von Ehron  
Juniperus Virginiana Canaerti  
Juniperus Virginiana Dundee  
Juniperus Virginiana Glauca  
Pinus Nigra

## BROAD-LEAVED

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Euonymus Patens  
Ilex Opaca East Palatka

Ilex Vomitoria  
Nandina Domestica  
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2 1/4-in. pots . . . . . \$25.00 per 100, \$225.00 per 1000

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2 1/4-in. pots . . . . . \$25.00 per 100, \$225.00 per 1000  
2-yr., field-grown . . . 50.00 per 100, 450.00 per 1000

**FORSYTHIA LYNWOOD GOLD.** Deep gold-flowered; will replace all deep yellow varieties.

2 1/4-in. pots . . . . . \$25.00 per 100, \$225.00 per 1000  
2 to 3 ft. . . . . 60.00 per 100, 500.00 per 1000  
18 to 24 ins. . . . . 50.00 per 100, 450.00 per 1000

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**GULF STREAM NURSERY, INC.**  
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## SEEDS

of Northern Evergreens

List sent on request.

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Collectors of Tree, Shrub and Wild Flower Seeds

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RESISTANT TO MOST ALL OF THE COMMONLY KNOWN ROOT NEMATODES.

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5000 or more, 3c each

Can give immediate shipment.  
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SEED GROWN FROM SELECTED FREESTONE STOCK IN ISOLATED ORCHARDS.

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FLORAL GARDENS INC.  
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Let us quote on your requirements.

**L. J. RAMBO'S WHOLESALE NURSERIES**  
Bridgman, Michigan

are apparently too insignificant to receive this kind of attention. Thus, the seller can be careless in implication at least, if he is selling a bunch of cull bulbs he picked up or went into the woods after.

The only effective way industry ethics can be advanced is through trade association effort. Think of this if you ever find yourself wondering whether or not to send your association dues along for another year.

### Ethics and Daily Activities

Under the heading of ethics there are many questions that might be taken up concerning day-to-day activities. Is, for example, the common policy of replacement or partial replacement fair to the customer who properly cares for his purchase when, in addition to paying the value of the product, he pays a premium so that the careless customer can file a claim? I think all nurserymen have had the experience of planting A's job and B's job on the same day using the same material, under the same conditions, only to find later that A has a thing of beauty and a joy forever while B's planting is anemic or worse. Is it fair to A that he help pay for B's double indemnity?

And what is the nurserymen's responsibility to the customer on material not completely hardy for the area? If you ask a farmer in southern Wisconsin if he can raise corn, he will tell you, "Certainly, but you cannot raise it much farther north of here." If you were to work your way up each successive tier of counties you would receive the same answer all the way to Lake Superior. If it is ethical to sell Multiflora roses in Beloit, is it in Madison? In Wisconsin Rapids? In Wausau? In Rhinelander or Land o' Lakes? Some place in that northward journey you are beginning to deal with a misinformed public which reads the garden magazines beamed at Ohio and Illinois. Do you have an ethical obligation to the uninformed public?

### Uninformed Public

An uninformed public is a discouraging thing when ethics is concerned. Perhaps 95 per cent of the casual buyers do not know that roses are graded. There you sit with your \$2.50 patented varieties when the dime store is hawking roses for 60 cents. They cannot tell quality and the impulse may become strong within you to say, "What's the use? Maybe the public exists

## AMERICAN NURSERYMAN

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**BOSKOOP, HOLLAND**  
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Wholesale growers of:

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**Our Special Offer:**

- 2000 Chionodoxa Lagenaria Rubra, 2-yr., T., 12 to 18 ins.
- 500 Chionanthus Virginicus (White Fringe Tree), 2-yr., T., grafts, 8 to 12 ins.
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- 1000 Hydrangea Petiolaris (Climbing Hydrangea), 2-yr., T., C., 12 to 15 ins.
- 5000 Kolkwitzia Amabilis (Beauty Bush), 2-yr., T., C., 15 to 18 ins.
- 5000 Kerria Japonica Pleniflora, double yellow, 2-yr., T., C., 18 to 24 ins.
- 1000 Potentilla Grandiflora (NEW), large-flowering, 2-yr., T., C., 12 to 15 ins.

Write for our new, extensive catalog FOR GENERAL NURSERY STOCK and NOVELTIES IN MANY LINES

### LINING-OUT STOCK

	Per 100	Per 1000
AZALEA MUCRONULATA, 2-yr., S. ....	.....	\$50.00
AZALEA SCHLIPPENBACHI, 2-yr., S. ....	.....	50.00
PRUNUS TOMENTOSA, 1-yr., S., 6 to 8 ins. ....	.....	50.00
SYRINGA AMURENSIS JAPONICA, T., 8 to 10 ins. ....	.....	\$22.00

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SHERIDAN, ONTARIO, CANADA

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Shrubs and Trees including liners.  
Rhododendrons and Azaleas  
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NOVELTIES IN ALL LINES  
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Growers of choice Nursery Stock.  
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Reliable firm for general Nursery Stock and Belgian plants.  
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ANY VARIETIES NOT LISTED CAN BE SUPPLIED UPON REQUEST.

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Crater, Glowing scarlet	42.00
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Edith Eddy, Red, white edge	38.00
Elizabeth Evers, Fuchsia-rose	55.00
Elmus, Carmine, white edge	48.00
Kansas, Snow-white	38.00
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Finest Mixture	36.00

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L'Innocence, Pure white	\$42.00
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Bismarck, Porcelain-blue	
King of the Blues, Deep blue	
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WEST COAST CROFT LILIES	Per 1000
Ask for price	Top size 13 cm. and up
9 to 10, 150 per case	\$12.00
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PICTORIAL CARTONS FOR COUNTER TRADE	Per 1000
28 Mixed Darwin Tulips in box	Top size 13 cm. and up
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Heavy Mother Bulbs	Top size 13 cm. and up
Rembrandt, Large yellow	\$85.00
King Alfred, Best yellow	70.00
Carlton, Large open cup	65.00
Golden Harvest, Large golden-yellow	90.00
Mrs. E. H. Krelage, Creamy-white	80.00
Imperator, Pure white	90.00
Mixture for Naturalizing, D.N. and Round	40.00

CROCUS	Per 1000
First size 9 to 10 cm.	Second size 8 to 9 cm.
Purpureus Grandiflorus, Large purple	\$28.00 \$22.00
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Mixture All Colors	32.00 26.00

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Top size, per 1000.....\$16.00

AMERICAN-GROWN BULBS	Per 1000
King Alfred Daffodils, D.N. No. 1	\$95.00
10 to 11 9 to 10 8 to 9	cm. cm. cm.
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10 to 11 9 to 10 8 to 9	cm. cm. cm.
Wedgwood, Light blue	\$30.00 \$22.00 \$12.00
8 to 9 7 to 8 6 to 7	cm. cm. cm.
Golden Harvest	
Yellow	\$22.00 \$15.00 \$ 9.00
H. C. Van Vliet, Blue	22.00 15.00 9.00
Imperator, Deep blue	22.00 15.00 9.00
White Excelsior	24.00 16.00 10.00
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to get taken and maybe we ought to do a little taking ourselves."

It seems to me we have made great progress in ethics in American business, and, whether or not nurserymen are laggards, I am not sure. But the question of the used car dealer is now almost purely academic, for such an operator could not last long in business today. There was a time when we idealized such men as David Harum, who, although interesting, had as his only claim to fame his ability to treat a heavy horse in such a way that the symptoms would not show until the transaction was completed. If he carried the same tactics into our business, he could not hold a membership today. Even that great hero Horatio Alger was noteworthy only for his acquisitiveness, but we worshiped him. We glorified pure acquisitiveness and we sent the timber barons to Congress. There was a time when the primary object in doing business was to skin the next man, and the competitor in your business had to be your worst enemy.

Then, probably around the turn of the century, the atmosphere began to change. Trade associations and service clubs began to find a favorable climate. *Caveat emptor*—

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Well-branched. Very fibrous roots.

	Each per 10	Each per 100	Each per 1000
3 to 4 ft.	\$2.00	\$1.80	\$0.80
4 to 5 ft.	2.25	2.10	1.50
5 to 6 ft.	2.50	2.30	1.70
6 to 7 ft.	2.60	2.50	1.90
7 to 8 ft.	2.80	2.70	2.00
8 to 10 ft.	3.00	2.90	2.50

**FLOWERING CRAB APPLE TREES**In the following varieties—**Almey** (fiery-crimson), **Amisk** (pink), **Arrow** (purple), **Geneva** (dark red), **Makamik** (rose), **Scugog** (purple), **Sissipuk** (rose and white).

18 to 24 ins.	.55	.50	.40
2 to 3 ft.	.70	.65	.55
3 to 4 ft.	.85	.80	.70
4 to 5 ft.	1.00	.95	.85
5 to 6 ft.	1.25	1.10	1.00
6 to 8 ft.	1.35	1.25	1.15

**PEAR TREES (Standard)**In the following varieties—**Anjou**, **Bartlett**, **Bosc**, **Clapp Favorite**, **Flemish Beauty**.

2-yr., 11/16-in. cal. and up.	.60	.55	.50
2-yr., 9/16 to 11/16-in. cal.	.50	.45	.40
2-yr., 7/16 to 9/16-in. cal.	.45	.35	.30

**MONTMORENCY CHERRY TREES**

All from virus-free stock.

2-yr., 11/16-in. cal. and up.	1.10	.95	.80
2-yr., 9/16 to 11/16-in. cal.	1.00	.85	.70
2-yr., 7/16 to 9/16-in. cal.	.80	.70	.50
2-yr., 5/16 to 7/16-in. cal.	.30	.25	.20

**PEACH TREES**In the following varieties—**Early V**, **Golden Jubilee**, **Jerseyland**, **Redhaven**, **Standard Elberta**, **Valiant**, **Vedette**, **Vesper**, **Veteran**.

11/16-in. cal. and up.	.70	.65	.50
9/16 to 11/16-in. cal.	.60	.55	.45
7/16 to 9/16-in. cal.	.50	.45	.35
5/16 to 7/16-in. cal.	.40	.35	.25

**HYBRID TEA AND CLIMBING ROSES**

2-yr., No. 1 quality and size.

Each per 10, 55c; per 100, 50c; per 1000, 45c.

**Hybrid Teas**—Betty Uprichard, Brookdale Giant White, Caroline Testout, Condese de Sastago, Countess Vandal, Edith Nellie Perkins, E. G. Hill, Etoile de Hollande, Frau Karl Druschki, General MacArthur, General Superior Arnold Janssen, Geo. Dickson, Gruss an Teplitz, J. B. Clark, Joanna Hill, Killarney Pink, Lady Ashtown, Lily Pons, Los Angeles, Luis Brinas, Margaret McGredy, McGredy's Scarlet, Mrs. E. P. Thom, Mrs. G. A. Van Rossem, Mrs. H. Bowles, Mrs. P. S. du Pont, Mrs. S. Paton, Miss Rowena Thom, Mme. Butterfly, Prince Camille de Rohan, President Hoover, Sir Henry Segrave, Soeur Therese, Wm. A. Binney, Una Wallace.

**Climbing Roses**—American Beauty, Blaze, Crimson Rambler, Golden Yellow Climber, New Dawn, Paul's Scarlet, Thousand Beauties.

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Bowmanville, Ont., Canada

**MINIATURE ROSES**

Miniature buds and flowers. Hardy, ever-blooming, very bushy. Grows 8 to 10 inches high. Plant in pots, window boxes, patio planters. Excellent for low borders. May be trimmed like boxwood. Plant about 10 inches apart. Edge your walks, rose and flower beds with Miniature Roses for beauty and permanence.

	2 1/4-in. pots	Per 100
Frosty, white		\$65.00
Cutie, pink		50.00
Centennial Miss, pink		50.00
Pink Joy, pink		35.00
Oakington Ruby, red		30.00
Rosa Rouletti, rose		35.00
Thumbelina, red		35.00

**NURSERYMEN'S EXCHANGE**

938 Howard St.

SAN FRANCISCO 3, CALIF.

"let the buyer beware"—began to give way to that great American mercantile expression of "May I help you, ma'am?" The discovery was made that the competitor was a decent fellow, too. This is not to suggest that we have accomplished the millennium—far from it—it is only to note progress, for we are still beset by the fast-buck boys, and some advertising copy reads the same as it did 50 years ago. But we are part of that progress and must battle for it.

We hear such phrases as "the right of the individual" and "the dignity of the individual," but they reflect only one facet of a many-faceted question. In all societies the legal framework is supplied by the institution of government. In a free society the use of arbitrary power is prohibited or at least greatly restricted, for it is presupposed that the people are essentially moral or ethical and that they have within them the ability to equate rights and responsibilities. We will be faithful to our industry, our community and ourselves when we discover a satisfying way of life in implementing a desire to be of usefulness to our community and by endeavoring to help the customer find satisfaction.

**Plan for Living**

You will hear those who are more academic in the profession, when speaking of a landscape plan, use such words as "unity," "harmony," "composition," "beauty" and "tranquillity." It is strange that you never hear such words in connection with a plan for living. And yet if living is to have any harmony or beauty, it must be just as deliberately planned and carried out. If life is to have these things, or any satisfaction, it must have purpose. In a world which is ethical or moral—and it must be that, or striving to be that—that purpose can only be to attempt to emulate the Creator and be of usefulness in his undertaking. Ethical considerations will bother you to the extent that you neglect to realize that object. If your primary purpose in being in business is to get what's in it for you, then life can only be unbecomingly or ugly, but, if your attitude is broader and you attempt to design for purposefulness, it can be beautiful.

I think ethics or moral principles are of primary importance to American business, for Americans are not little men, and the struggle we are rushing to join in this world is an ethical one. The question of



our time is how to resolve the conflict between the moral world rooted in the Judean-Christian tradition and the material world, seeded by Marx, and the seedling grafted to statism by Lenin.

The fulfillment of the American dream, which began over 1,900 years ago and blossomed into the institution of government in 1776, will yet reach full flower in the Ethical Man. When the phrase, "the dignity of the individual," ceases to be a presumed political right and becomes instead a fully merited accomplishment, then we shall have reached full flower.

### CHEMOTHERAPY OFFERS NEW DISEASE CONTROL

Chemotherapy offers the best answer yet to plant diseases that cannot be treated by fungicides, Dr. A. E. Dimond, head of the plant pathology department at the Connecticut agricultural experiment station, New Haven, reported at the annual meeting of the American Phytopathological Society, held recently at Madison, Wis.

The usual solution to such diseases has been cultural practices that circumvent the disease or breeding resistant varieties that will not contract it. Both methods have their drawbacks.

Chemotherapy, on the other hand, Dr. Dimond said, offers an opportunity both to make plants disease-resistant and to prevent the spread of disease if it does appear. It works this way: A protective chemical is watered on the soil around plants or is sprayed on the foliage; through absorption, the chemical becomes distributed through all parts of the plant tissue. The beneficial effects may come about in three ways. Some chemotherapeutants are systemic fungicides as, for example, the antibiotics. They are translocated by the plant to the site of disease action and inhibit the disease. Others are toxin-inactivating drugs which poison specific vivotoxins or enzymes responsible for causing disease symptoms. The third group of compounds alters the resistance of the plant, so that it is less likely to contract a disease. The growth hormones fall into this category.

Dr. Dimond cited several examples of plant diseases that have been brought under control by chemotherapeutic action. They include red stele on strawberries, carnation wilt, various seed-borne diseases, damping-off of seedlings, Dutch elm diseases and fusarium wilt of tomatoes.

# ALUMALATH

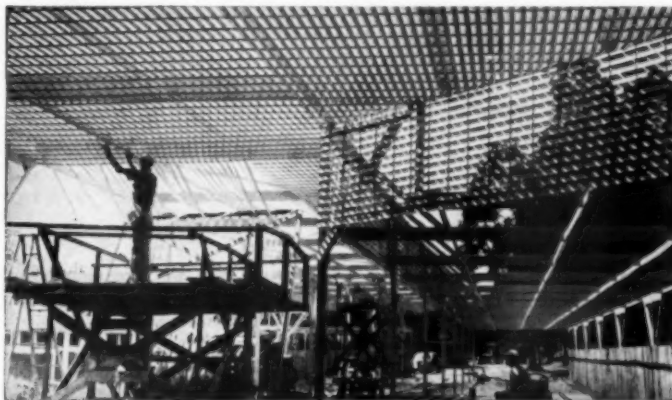
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## CALIFORNIA ASSOCIATION OF NURSERYMEN

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### NEW OFFICERS INSTALLED

Activities of the southern California chapters of the California Association of Nurserymen during the weeks following the 1953 convention have primarily concerned the installation of new officers for the 1953-54 year. By the end of October all chapters will have completed the traditional installation ceremonies.

Los Angeles chapter officials are arranging plans for their traditional installation party on October 28 at Knott's Berry Farm, Buena Park. An attendance of 250 to 300 persons is anticipated. Robert E. Weidner, Buena Park Greenhouses, Buena Park, and David L. Cunningham, Descanso Distributors, Inc., Chino, along with officials of the state association, will install the following: President, Ed McNeill, Tuttle Bros. Nurseries, Altadena; vice-president, O. L. Weeks, Weeks Wholesale Rose Grower, Ontario; secretary, James Meadows, Altadena, and treasurer, Ralph P. Klages, Coolidge Rare Plant Gardens, Pasadena.

Vice-president David S. Stump, of Armstrong Nurseries, Ontario, installed the new officers of the Centinela Valley chapter in an impressive ceremony at Smith Bros. Fish Shanty restaurant, WALTERIA, during the latter part of September. After a brief report on the convention, the outgoing president, Lynne Seright, Centinela Avenue Nursery, Inglewood, turned the gavel over to the new president, Richard F. Oehlman, Ladera Garden Shop, Los Angeles. The other incoming leaders, Vice-president Frank Kamada, Sun Nursery, Hawthorne; Secretary Harvey Ehlers, Garden Nursery, Culver City, and Treasurer W. J. Megraw, W. J. Megraw Nursery & Florists, Lomita, were introduced.

The Los Angeles Sunset chapter moved Wally Kinnear, H. Wallace Kinnear Nursery, West Los Angeles, up to the presidency, ably supported by Henry Yamamoto, Tom's Nursery, Hawthorne, vice-president, and Tom Yonemura, A.B.C. Nursery, Gardena, secretary. This chapter has made fine strides during the past two years under the leadership of Chester Baake, Baake's Nursery, Los Angeles, and James A. Gibbs,

Winsel-Gibbs Seed & Nursery Co., Los Angeles.

Riverside is the home of the new leader of the Inland Empire chapter, Waldo Small, of Small's Seed Co. & Nursery, who succeeds John Mason, Mason's Nursery, Pomona, as president. Ascending to the vice-president's chair is Frank Pollock, Matlin's Nursery, Ontario. Floyd Chambers, of Kramer Bros. Nurseries, Up-land, will serve as secretary for the 1953-54 year.

The leader of the San Fernando Valley chapter will be A. H. (Al) Boulton, owner of the Woodland Hills Nursery, Woodland Hills, in the far west end of the valley. Ben

### AMERICAN NURSERYMAN

Thrasher, Thrasher's Nursery, San Fernando, will serve as vice-president, with Jean Powell, Encino, continuing in the post of secretary.

Members of the Southern California Bedding Plant chapter recently elected Henry Ishida, Union Nursery, Gardena, as their new president. Ray Fujimoto, Coast Nurseries, Gardena, will be the vice-president. Jack Mather, Redondo Beach, long identified with this group as its secretary and chief spokesman, will continue in this capacity. E. M.

### SUPERIOR CHAPTER ELECTS

In a recent election of the Superior chapter of the California Association of Nurserymen, Dwight Dewing, Capital Nursery Co., Sacramento, was elected president. Tom Hall is the new vice-president, and Earl Lagomarsino, secretary-treasurer. The officers were installed at a September meeting at which a new director, M. R. Bailey, Bailey's Nursery, Lodi, was also named.

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### SANTA CRUZ COUNTY FAIR

One of the series of central coastal California county fairs was held at Watsonville, Santa Cruz county, September 24 to 27. Although it was one of the smaller fairs, its nursery exhibits lacked nothing in originality and thorough planning.

One of the most unusual displays at the fair was that of the George McDowell Nursery, of Watsonville. White gravel was used for the walks; driftwood marked points of interest, and a white grid was used as a background and place to put baskets or pots of fuchsias and tuberous begonias and similar plants, both upright-growing and pendulant. In the foreground planting coleus was used extensively and added to the interest of the garden, as it is seldom seen for that purpose in this area.

The Beth Mar Gardens, of Aptos, used a redwood stake fence as a background. The main planting material used was well-grown fuchsias in baskets and in pots, relieved with foliage plants of different heights, forms and shades of green. At one side was the end of a patio, and this was used to display a number of novelty wooden planters.

Arthur Lamont, of Watsonville, used begonias extensively in his exhibit. Tuberous begonias in pots and in hanging baskets and tuberous begonias as well as fibrous-rooted begonias in beds and in borders were arranged to emphasize variation in color and size and provided a superb example of how one type of flower can be used effectively for an entire planting.

The El Pajaro Gardens, Watsonville, used semitropicals as the basis of their design. Flowering plants of gardenias and anthuriums were combined with wood ferns in an attractive design, and lying on the ground in front of them were leis of Vanda orchids.

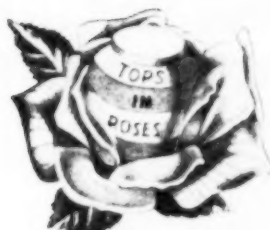
Another Watsonville entry was that of the Alladin Nursery, which used a garden pool and the stump of a giant redwood in a well-executed exhibit.

The Germain Seed & Plant Co. advertised its Watsonville retail outlet with mass plantings of potted plants giving the effect of a formal park planting.

The exhibits attracted many spectators, who showed great interest in the attractive and educational presentations.

California nurserymen have found the county fairs to provide one of the best means of advertising their own firms and the industry.

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We use orlon made by man;  
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For your convenience, our October catalog will have an important new feature. It now includes transportation costs for lining-out stock shipped by public carrier.

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We believe you'll agree that this new method has long been needed—and that the MN prepaid transportation rate chart is a very important new development in the nursery business. If you do not yet have your copy of our MN October catalog, please write for it today.

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## CHLOROSIS IN CALIFORNIA

A recent study made by Arthur Wallace, C. P. North, A. M. Kofranek and O. R. Lunt, of the University of California at Los Angeles, has shown that treatment of lime soils with iron-containing chemicals known as chelating agents enables pallid trees to become a rich green and survive in once barren soil with irrigation water previously too alkaline.

Much of the pallor of southern California trees is caused by chlorosis, a condition resulting from the excessive lime in the soil. Treating of lime soils with these chemicals controlled the chlorosis effectively in the study.

For ornamental plants the treatment is economical, the researchers report. No economic data were available on the use with commercial fruit trees.

Technical nicknames for the agents are EDTA, DTPA and HEEDTA. They should be thoroughly watered into the soil and then normal irrigating procedure followed, according to the investigators. Excessive applications can result in leaf burning similar to that caused by excessive use of fertilizers, they warn.

## CALIFORNIA NOTES

Roy Hudson, assistant superintendent of the Golden Gate park, at San Francisco, spoke on "Your Garden in September" at the September 21 meeting of the San Francisco Business Mens' Club.

The Kitty Kelly Begonia Gardens, Mountain View, is giving up its retail department. All fixtures and supplies as well as ornamental stock were sold at an auction on September 24. A. J. Sellars, managing owner of the firm, advises that the wholesale growing and selling of begonias, camellias and one or two other items will be continued from the rear of the nursery's property. The retail store will be completely refurnished and renovated and will be operated as a retail nursery and garden supply store under new management.

William Tiedemann, manager of the Roger Reynolds Nursery, Menlo Park, observed one of a trio of prospective customers helping himself to cash in the nursery's till recently. The trio had asked to be shown plants from a list and indicated that they were ready to spend about \$1,000 for the material. While two of the group kept the salesmen busy elsewhere, the third wandered back to the office and was in the process of helping himself when he was seen

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by Mr. Tiedemann, who was working in another part of the store. The culprit was caught, dropped his loot and was released by Mr. Tiedemann on the plea that he was soon to be married. The two others came back about this time, and all three were permitted to leave. Later, Mr. Tiedemann reported it all to the police.

Leo Ihle, who in addition to operating a Marin county nursery has been business manager of the San Francisco Hearst newspaper, was promoted to the position of publisher on the recent resignation of Randolph Hearst.

The San Mateo county commissioner of agriculture sends to the nurseries in the county an occasional pest control bulletin. The latest issue, mailed recently, advises that autumn is a good time to spray in order to reduce insect populations before the winter rains set in. Pests common now are listed, and the materials recommended for their control are given. Emphasized is the fact that one obtains plenty of coverage from 400 to 600 pounds of pressure in the spray rig.

Weed control is also discussed in the bulletin, and it is indicated that the weed problem is more severe than in the past. It is suggested

that nurserymen prepare to spray weeds with an oil spray as soon as they have grown about one inch high. Spraying is reported to be cheaper than hoeing, and spraying weeds when they are small is reported to be most effective and economical.

Donald Thomas, who was formerly nursery inspector in San Mateo county, has been appointed agricultural commissioner of Humboldt county.

John Snyder, who has been office manager for the Pleasanton office of Jackson & Perkins Co. for the past 10 years, has resigned effective October 15. He will go into the nursery business with his father and an uncle in Washington. Warren Annis, who has been assistant office manager and represented the firm in some areas as a salesman, will succeed Mr. Snyder. Mr. Snyder was well known in the nursery trade in the bay area and served as secretary of the Central chapter of the California Association of Nurserymen for two terms.

WITZEL'S NURSERY opened for business September 3 at the corner of La Luna road and Highway 150, Miramonte, Calif. The firm is carrying nursery stock and cut flowers.

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## VOLATILE WEED KILLERS

The factor of volatility—a chemical's tendency to evaporate—is coming to be recognized as an important property of weed-killing preparations. Once thought to be non-volatile, some of these compounds are behaving so as to lead scientists to investigate this aspect of them more thoroughly. Gardeners have sometimes found that a treatment on one person's lawn injured shrubs around the house next door, or that herbicides which worked well in one place failed in another.

Research on the question has been done by four scientists at the plant industry station of the United States Department of Agriculture, Beltsville, Md. They are W. C. Shaw, P. J. Linder, P. C. Marth and J. W. Mitchell, and they recently released a progress report on three major groups of weed killers that chemists have put together from alcohols, chlorine and the coal-tar product, phenol.

The phenoxy compounds, the first group discussed, include 2,4-D, 2,4,5-T and MCP. Volatility does not seem to be important with phenoxy acids, salts, amides or amines, but is a factor with the acid-alcohol compounds called esters. Vapors from these compounds may travel some distance and damage such sensitive crops as cotton, tomatoes and grapes.

Chemists are making new phenoxy compounds that are high in weed-killing punch but low in vapor activity. Dissolving the esters in diesel oil cuts down their volatility and helps them penetrate and stick better.

The dinitro compounds are used to kill weeds in peas and grain and as a pre-emergence treatment for broad-leaved weeds and grasses. Vapors from the dinitros affect some plants more than others and are most dangerous at the seedling stage. These vapors do not seem to travel far, but the compounds should be used cautiously.

Unfortunately, dinitros low in vapor activity also seem to be low in weed-killing power. If chemists cannot develop effective compounds with low volatility, they may be able to reduce the vapor activity of present dinitros by combining them with other materials.

Carbamates, the last group surveyed in the report, are used to control chickweed in strawberries and to kill annual grasses in alfalfa and onions. The parent compound is IPC, and one of the newer mem-

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bers of the carbamate group is CIPC. With this group preliminary research indicates that the vapors of these compounds generally do not harm the plants much. The trouble is that carbamates, being unusually volatile at high temperatures, may evaporate before killing the weeds. This high rate of evaporation means that users must apply larger amounts than would ordinarily be required.

#### WEEVIL ATTACKS TAXUS

Taxus or black vine weevil is becoming a serious threat to taxus plants on the home grounds as well as in the nursery, advises Raymond P. Korbobo, extension specialist in ornamental horticulture at Rutgers University, New Brunswick, N. J.

It also attacks hemlocks, chamaecyparis—commonly called false cypress—rhododendrons and azaleas. Infested plants appear to be dying of drought, even in wet weather.

This insect makes a specialty of eating the fine water-absorbing hairs on roots and then, as it grows larger, it also eats the heavier roots. It emerges from the ground as a dark gray, almost black adult, about a half inch long, with a plump body and a snout-like mouth. In severe cases it will chew the bark of lower branches and even eat the ends off the needles.

By the time the needles look as if they had been cut with scissors, the damage has been done and the plant probably will die.

A few weevils will not kill a plant, many of them will, says Mr. Korbobo. To get rid of this pest, he suggests, thoroughly spray each plant between the middle of June and the middle of July.

Use one pint of 75 per cent Chlor-dane emulsion to 100 gallons of water, or one and one half pints of 46 per cent emulsion to the same quantity of water. Heptachlor also has proved to be successful.

A good-size plant, says the specialist, needs two to three gallons of this spray, so that each square foot of soil under it receives about a pint of liquid. The spray must reach the soil because that is where the weevil starts.

FISK UNIVERSITY received a \$130,000 grant from the estate of the late Joseph Browne, owner of the Lischee Nursery & Greenhouses, Nashville, Tenn., when the registered securities, stocks, bonds and cash were recently turned over to Dr. Johnson, president, who said it is the largest grant ever given to Fisk by a Negro. The money is to be used for scholarships.

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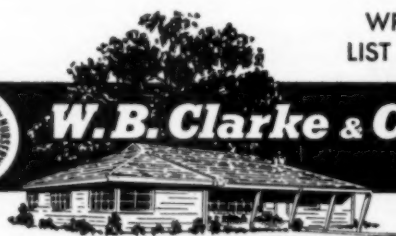
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GENERAL NURSERY STOCK

#### ROSES—TREE ROSES

A fine selected list including patented varieties. Highest quality — all field-grown.

Write for list and prices.

**PACIFIC NORTHWEST ROSE NURSERY**  
P. O. Box 261 GRESHAM, ORE.

# CLASSIFIED ADS

Rate: 30 cents per line, each insertion.

Minimum order, \$3.00

Instructions for the next issue must be received by Friday, October 16.

## AZALEAS

### AZALEAS

To be delivered November through February. Hexe, Coral Bell, Snow, Hinodegiri, Salmon Beauty, Pink Pearl, Mme. Pericat, Rose Pericat, Mrs. Fisher, Twenty Grand and Gardenia Supreme. Price per 100: 3-in. head size, 18c; 4 ins., 25c; 5 ins., 35c. Price F.O.B. Redlands. Shipped balled so that 25% post mix need be added.

Twenty Grand, 3 ins. only. Gardenia Supreme liners only, 12c and 15c.  
KAVELAAR NURSERY  
120 Franklin Ave. Redlands, Calif.

### AZALEA MOLLIS

We have over 20,000 of the finest Azalea Mollis seedlings, true to color, including Spek's Brilliant, vermilion-red; Spek's Orange, orange-salmon; Spek's Pink, salmon-pink, and in the colors: Red, salmon-red, orange-salmon, yellow and salmon-pink. Very bushy plants; sizes 8 to 10 ins.; 10 to 12 ins.; 12 to 15 ins. Also mixed selections of the above special seedlings.

Ask for our catalog.  
JAN SPEK Boskoop, Holland  
Est. 1890

### AZALEA KURUME

4 to 6 ins., lath-grown, \$15.00 per 100. Nice budded, 2-year plants. Just right for 3-in. pots. Also good for landscape plantings. Coral Bell Pink Pearl Sweetheart Supreme Snow Flower Bridesemaid  
FLOUNDERWOOD NURSERY  
Rt. 1, Box 130 Mobile, Ala.

### AZALEAS

#### In 1-Gal. Cans

	Per 100	Per 1000
Hinodegiri, 8x10-in. crown.....	\$1.20	\$1.10
Hinodegiri, 6x10-in. crown.....	.80	.75
Coral Bells, 8x10-in. crown.....	1.20	1.10

MUSKOGEE GREENHOUSE CO.  
Breaser Wholesale Florists  
P. O. Box 1491 Muskogee, Okla.

### AZALEAS

Thousands of beautiful Kurume Azaleas. Dense, bushy, well-budded — for landscape planting and forcing. Book your order now while there are still some available.

#### THE TANKARD NURSERIES

Exmore, Va.

## BERRY PLANTS

**RASPBERRY PLANTS**—For fall setting. Revolutionary new Durham offer season red raspberries. Bears mid-August to November. Also Indian Summer, Everbearing Raspberries. Wholesale prices on request.  
**STRAWBERRY PLANTS**—New varieties—Maine 55, Monmouth, Oxlard, Erie, Eden, Vermilion, Sioux—and 25 other standard and everbearing varieties. Catalog free.

WALTER K. MORSE & SON  
Bradford, Mass.

### RASPBERRIES

**DURHAM**, new, red everbearer.  
Per 100 Per 1000  
No. 2 plants ..... \$ 8.00 \$ 75.00  
No. 1, 3/16 to 3/4-in. cal. .... 9.50 90.00  
Heavy, 5/16 and up ..... 12.50 120.00  
Transplants ..... 16.00 150.00  
Doubly state inspected, October 15 and 20. Cash. Free packing.

WHELOCK WILSON NURSERY  
Marshalltown, Ia.

### BERRY PLANTS

Grown in the northwest under irrigation. Strong, healthy, No. 1 plants. Superfection strawberry plants, \$13.00 per 100 in quantity lots. Latham and Newburgh raspberry, \$40.00 per 100.

McNEAL BERRY NURSERY  
Hamilton, Mont.

### PIXWELL GOOSEBERRIES

25,000 Pixwell Gooseberries, 2-yr., No. 1, mostly extra-heavy, 5c to 7 1/2c each. Will let go for 20,000 if you take them all and dig them yourself. Will furnish tractor and operator free of charge for digging.

SCHWAB FRUIT FARM & NURSERY  
220 N. Fifth St. Mankato, Minn.

### CERTIFIED RASPBERRY PLANTS

	Per 100	Per 1000
Taylor No. 1 .....	\$4.50	\$35.00
Indian Summer No. 1 .....	5.00	40.00
Indian Summer, 3/4-in. and up .....	6.50	55.00

No charge for boxing.  
BAKER'S NURSERIES Hoosick Falls, N. Y.

### STRAWBERRY PLANTS

Blakemore strawberry plants, \$6.00 per 1000. Mastodon everbearing strawberry plants, \$7.50 per 1000.

QTIS PACK & SONS NURSERY  
McMinnville, Tenn.

### GIANT TAYLOR RED RASPBERRIES

100 plants, \$4.00; 1000 plants, \$37.50; 5000 or more, \$30.00 per 1000.

ST. REGIS TREE NURSERY  
St. Regis Falls, N. Y.

## BULBS AND TUBERS

### HOLLAND GROWN BULBS

**DARWIN TULIPS**, 11 to 12 cm., 5c each. Bleu Aimable, blue; Wm. Pitt, red; Pride of Haarlem, red; Yellow Giant, yellow; Princess Elizabeth, rose; Wm. Copland, lavender; Queen of the Night, black; Zwaneburg, white.

**PARROT TULIPS**, 11 to 12 cm., 6c each. Fantasy, rose shadings, green markings; Sunshine, brilliant yellow; Orange Favorite, reddish orange yellow; Blue Parrot, blue shading to lavender.

**HYACINTHS**, 15 to 16 cm., 10c each. Gert-rude, pink; L'Innocence, white; City of Haarlem, yellow; Bismarck, blue; King of Blues, dark blue; LaVictoire, red.

**CROCUS**, 7 to 8 cm., 4c each. King of Blues, blue; Golden Yellow, yellow; Striped Beauty, white and blue; King of Whites, white.

**MUSCARI**, 7 to 8 cm., 2c each. Grape Hyacinth.

**DUTCH IRIS**, 8 to 9 cm., 5c each. Golden Harvest, yellow; White Excelsior, white; Wedgwood, blue.

**DAFFODIL**, 6c each. King Alfred, rounds.

**SCILLA**, 7 to 8 cm., \$2.50 per 100, Campanulata, mixed colors.

**SNOWDROPS**, \$4.00 per 100.

### AMERICAN GROWN BULBS

**MADONNA LILY**, 20 cm., and up, \$3.50 per 10. Blooms for Decoration Day.

BENTON COUNTY NURSERY CO., INC.  
Roger, Ark.

### TUBEROUS BEGONIAS

Giant Double-flowering Camellia Type, 8 Colors.

1 1/4 to 1 1/2 ins. \$ 5.50 per 100; \$ 45.00 per 1000

1 1/2 to 2 ins. 8.50 per 100; 75.00 per 1000

2 ins. up ..... 12.50 per 100; 115.00 per 1000

Double-flowering Dianthus Fimbriatus Type, 6 Colors.

1 1/4 to 1 1/2 ins. 7.00 per 100; 60.00 per 1000

1 1/2 to 2 ins. 11.50 per 100; 100.00 per 1000

2 ins. up ..... 15.00 per 100; 140.00 per 1000

Minimum order \$5.00

LOUIS DANK

1170 Broadway New York 1, N. Y.

Delivery after Dec. 15th.

### FANCY-LEAVED CALADIUMS

The finest of commercial named varieties. Over fifty varieties to choose from. All fully upgraded to size.

No. 2, 1 to 1 1/2 ins. .... \$12.00 per 100

No. 1, 1 1/2 to 2 1/2 ins. .... 18.00 per 100

Jumbo, 2 1/2 to 3 1/2 ins. .... 25.00 per 100

Mammoth, 3 1/2 ins. up ..... 37.00 per 100

Orders totaling 1000 bulbs, 10% discount.

Minimum order \$5.00.

Send for our Colored Chart of varieties.

LOUIS DANK

1170 Broadway New York 1, N. Y.

### GLOXINIA

The Best Commercial Varieties

1 1/4 to 1 1/2 ins. \$ 7.50 per 100; \$ 65.00 per 1000

1 1/2 to 2 ins. 14.00 per 100; 130.00 per 1000

2 ins. up ..... 22.00 per 100; 190.00 per 1000

Mammoth Bulbs, Limited ..... 35.00 per 100;

Minimum order 500

LOUIS DANK

1170 Broadway New York 1, N. Y.

Delivery after Dec. 15th.

### NARCISSUS BULBS

True to name, April-blooming, fragrant, white-flowering, blooming-size bulbs. \$3.00 per 100, \$25.00 per 1000.

MRS. R. L. ROBINSON

Greenville, Ga.

### HEMEROCALLIS

The south's largest growers of Hemerocallis offer quality stock of good leading varieties at quantity prices. Many new varieties are included. Write for wholesale catalog.

Riegel Plant Co., Experiment, Ga.

LYCORIS Squamigera (Amaryllis Halli), \$13.50 per 100, \$125.00 per 1000. Fine bulbs, delivery October-November.

R. BAKER Owego, N. Y.

### HARDY MICHIGAN-GROWN LILY BULBS

New rare, scarce and unusual as well as standard varieties. Send for your free copy. New wholesale list now ready.

J. HENDRIKS, GROWER,  
PORTAGE, MICH.

## EVERGREENS

### EVERGREEN LINERS

	Each	Per 100	Per 1000
BERCKMANS BIOTA A. N.	\$0.22	\$0.17	
2-in. pot, 2-yr.	.27 1/2	.22 1/2	
1-yr., field-grown	.35	.30	
WOODWARD GLOBE ARBORVITAE			
2 1/2-in. pot, 2-yr.	.25	.20	
2 1/2-in. pot, 1-yr.	.21 1/2	.16 1/2	
2-in. pot, 2-yr.	.21 1/2	.16 1/2	
2-yr., field-grown	.35	.30	
PYRAMID ARBORVITAE			
2 1/2-in. pot, 1-yr.	.21 1/2	.16 1/2	
2-in. pot, 2-yr.	.21 1/2	.16 1/2	
2-yr., field-grown	.35	.30	
HETZ GLAUC JUNIPER			
2 1/2-in. pot, 2-yr.	.23	.18	
2 1/2-in. pot, 1-yr.	.20	.15	
BURKE JUNIPER			
2 1/2-in. pot, 1-yr.	.27 1/2	.22 1/2	
TAXUS MEDIA			
2 1/2-in. pot, 2-yr.	.25	.20	
2 1/2-in. pot, 1-yr.	.20	.15	
2 1/2-in. pot, 2-yr.	.22	.17	
4-yr., field-grown	.45	.40	
GREEK (STRICTA) JUNIPER			
Thumb pot, 2-yr.	.23	.18	
BAKERI ARBORVITAE			
Thumb pot, 2-yr.	.20	.15	
2 1/2-in. pot, 2-yr.	.30	.25	

**LANDSCAPE-SIZE EVERGREENS**

	Each
Berckmans Biota A. N.	\$1.75
Pfitzer Juniper	3.00
Hetz Glauca Juniper	3.00
Hill Dundee Juniper	3.50
Columnaris Juniper	3.50

TERMS: Cash with order—Free packing.  
300 plants of one variety at 1000 rate.  
Not less than 50 of a variety.  
Orders for spring held for one-quarter deposit.

### VOGE NURSERY

New Lebanon, O.

### EVERGREEN LINERS AND CUTTINGS

#### POT-GROWN AND TRANSPLANTS

	Each	Per 100	Per 1000
Arborvitae, American Dark Green.			
1-yr. pots	\$0.20	\$0.18	
Arborvitae, Globe, 1-yr. pots	.20	.18	
Arborvitae, Pyramidal, 1-yr. pots	.20	.18	
Arborvitae, Pyramidal, 2-yr. pots	.26	.24	
Juniper, Blue Hetz, 1-yr. pots	.22	.20	
Juniper, Blue Hetz, 2-yr. pots	.27	.25	
Juniper, Gold Pfitzer, 1-yr. pots	.24	.22	
Juniperus chinensis pfitzeriana, 1-yr. pots	.24	.22	
Juniperus chinensis pfitzeriana, 2-yr. pots	.29	.27	
Juniperus pfitzeriana compacta, 1-yr. pots	.24	.22	
Juniperus virginiana burki, 2-yr. pots	.37	.35	
Taxus hickii, 2-yr. pots	.24	.22	

### HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

	Each	Per 100	Per 1000
Arborvitae, American			
Dark Green	\$0.10	\$0.09	
Arborvitae, elegantissima	.10	.09	
Arborvitae, Globe Woodward	.10	.09	
Arborvitae, Pyramidal	.10	.09	
Euonymus alatus compactus	.09	.08	
Euonymus erectus	.07	.06	
Euonymus patens	.06	.05	
Euonymus vegetus	.09	.08	
Juniperus chinensis pfitzeriana	.15	.14	
Juniperus hetz glauca	.11	.10	
Juniper, Swedish	.10	.09	
Taxus cuspidata	.11	.10	
Taxus hatfieldi	.11	.10	
Taxus intermedia	.11	.10	
Taxus media hickii	.11	.10	

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

### JUNIPER CUTTINGS

Unrooted cuttings of Pfitzer Juniper, 6 to 8 ins. long, not trimmed, \$10.00 per 1000. Cash. Express or motor freight.

KRONE'S FLOWER SHOP  
4221 Grand Ave. Fort Smith, Ark.

### EVERGREENS

Fine Finished Landscape Plants.

	Each
Aurea Conspicua Arborvitae, 30 to 36 ins.	\$2.00
Aurea Conspicua Arborvitae, 36 to 42 ins.	2.50
Bakers Arborvitae, 36 ins.	2.00
Berkmanns Golden Arborvitae, 15 to 18 ins.	1.25
Berkmanns Golden Arborvitae, 18 to 21 ins.	1.50
Globe Arborvitae, 18 to 24 ins.	1.50
Golden Spreaders, 15 to 18 ins.	1.15
Golden Spreaders, 24 to 30 ins.	1.75
Pyramidal Arborvitae, 18 to 24 ins.	1.75
24 to 30 ins.	2.25
36 to 42 ins.	2.75
42 to 48 ins.	3.00
English Juniper, 4 ft.	2.25
Pastigiate Juniper, 24 to 30 ins.	1.15
Pastigiate Juniper, 36 to 42 ins.	1.75
Pfizer Juniper, 24 to 30 ins.	2.25
24 to 30 ins.	2.75
36 to 42 ins.	3.50
Spiny Juniper, 15 to 18 ins.	1.25
Spiny Juniper, 30 to 36 ins.	2.75
Hemlocks, bushy specimens, 30 ins.	2.50
36 ins.	3.00
42 ins.	3.50
48 ins.	4.00

#### LINERS

Pfizer Junipers, \$25.00 per 100; \$200.00 per 1000. Elaeagnus Fruitlandi, 20c each. Prices F.O.B. Nursery. Truck lots delivered at cost. Visit our nursery and select stock.

### TRITSCHLER'S GREENHOUSES

4425 W. Lawn Drive Nashville 9, Tenn.

#### B&B EVERGREENS, ETC.

	Each
700 Andorra Juniper, 18 to 24 ins.	\$1.95
100 Andorra Juniper, 2 to 2 1/2 ft.	2.50
500 American Arborvitae, 2 1/2 ft.	2.00
300 Irish Juniper, 2 to 2 1/2 ft.	2.00
100 Irish Juniper, 2 1/2 to 3 ft.	2.50
100 Pfizer Juniper, 2 to 3 ft.	3.00
900 Juniperus Glauca Hetzi, 18 to 24 ins.	2.00
900 Juniperus Glauca Hetzi, 2 1/2 to 3 ft.	3.50
1900 Pyramidal Arborvitae, 2 1/2 ft.	2.35
Other Balled and Burlaped Items	
300 Dogwood, White-flowering, 3 to 4 ft.	2.00
280 4 to 5 ft.	2.50
510 5 to 6 ft.	3.50
100 Chinese Elm, 5 to 6 ft., heavy.	1.75
300 Forsythia Fortunei, 3 ft., heavy.	1.00

#### Evergreen Liners

	Per 100
5500 Andorra Juniper, 6 to 8 ins., T.	\$12.50
4100 Bar Harbor Juniper (Green), 6 to 8 ins., T.	11.00
2700 Bar Harbor Juniper (Green), 8 to 10 ins., T.	15.00

Above stock is offered for fall, 1953, delivery. Prices are F.O.B. our St. Marys nursery. Can be certified for delivery outside the beetle area.

#### WHERRY'S NURSERIES

St. Marys, W. Va.

#### EVERGREENS

	Per 100	Per 1000
Scotch Pine, 2-0, 3 to 6 ins.	\$3.50	\$18.00
Scotch Pine, 2-0, 3 to 8 ins.	4.00	22.50
Riga Scotch Pine, 2-0, 3 to 8 ins.	3.50	22.50
Austrian Pine, 2-0, 3 to 5 ins.	3.50	20.00
Mugho Pine, 2-0, 2 to 4 ins.	3.50	20.00
3-0, 4 to 6 ins.	4.50	30.00
3-1, 4 to 6 ins.	7.00	50.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.	3.50	20.00
3-0, 3 to 6 ins.	5.00	35.00
2-1, 2 to 4 ins.	5.00	35.00
2-2, 4 to 6 ins.	6.50	45.00
Norway Spruce, 2-0, 2 to 6 ins.	3.50	20.00
2-2, 4 to 8 ins.	6.00	45.00
2-3, 8 to 10 ins.	9.00	55.00
White Spruce, 3-0, 2 to 6 ins.	4.50	25.00
Black Hills Spruce, 3-0, 2 to 4 ins.	3.50	20.00
Black Hills Spruce, 2-2, 4 to 6 ins.	6.00	45.00
Black Spruce, 3-0, 6 to 8 ins.	5.00	35.00
American Arborvitae, 2-1, 2 to 4 ins.	5.00	35.00

Terms: 2% cash with order. Complete list of lining-out stock and potted evergreens. Write.

#### JOHN G. ZELENKA

R. 2 Grand Haven, Mich.

#### GRAFTED JUNIPERS

	Each
150 Juniperus Virginiana Glauca, not sheared, 4 ft.	\$3.00
200 Juniperus Virginiana Glauca, not sheared, 5 to 6 ft.	3.50
100 Juniperus Chinensis Green, 2 1/2 to 4 ft.	2.50
200 Juniperus Hetzi, spreaders, silver, 18 to 24 ins.	2.00
200 Juniperus Hetzi, spreaders, silver, 24 to 36 ins.	2.50
100 Juniperus Pfitzeriana Green, 18 to 24 ins.	2.00
100 Juniperus Pfitzeriana Green, 24 to 36 ins.	2.50

All these plants are grafted on Virginiana understock. The surplus price we are making is a real bargain. The early bird catches the worm.

#### T. C. CRUME NURSERY & LANDSCAPING CO.

Hy. 42 Phone: Florence 233 Florence, Ky.  
10 miles south of Cincinnati

### LINING-OUT STOCK

Well-established, 2 1/2-in. Rose Pots.

	Each
Pyracantha Pauciflora, 6 to 8 ins.	\$0.20
Euonymus Patens Newport, 6 to 8 ins.	.20
Ligustrum Vickary's Golden, 8 to 10 ins.	.20
Lonicera Japonica Purpurea, 8 to 10 ins.	.15
Juniperus Andorra Plumosa, 6 to 8 ins.	.20
Juniperus Canadensis Grafts, 8 to 10 ins.	.60
Juniperus Chinensis Pfitzeriana, 4 to 6 ins.	.18
Juniperus Chinensis Pfitzeriana, 6 to 8 ins.	.22
Juniperus Chinensis Pfitzeriana Aurea, 4 to 6 ins.	.18
Juniperus Excelsa Stricta, 6 to 8 ins.	.20
Juniperus Hibernica Fastigiata, 4 to 6 ins.	.16
Juniperus Sabina Tamariacifolia, 4 to 6 ins.	.22
Juniperus Sabina Von Ehron, 4 to 6 ins.	.18
Juniperus Scopulorum Blue Star, 4 to 6 ins.	.25
Juniperus Squamata Parsons, 4 to 6 ins.	.25

Packing free. Cash with order, please. Minimum shipment 25 of a kind.

#### KENYONS NURSERY

Dover, Okla.

#### EVERGREENS

	Per 100	Per 1000	Per 5000
Riga Scotch Pine, 2-0.	\$4.50	\$21.00	\$100.00
Scotch Pine, Green			
Strain, 2-0, 3 to 6 ins.	4.50	20.00	95.00
Scotch Pine, Green			
Strain, 2-0, 3 1/2 to 8 ins.	5.00	22.00	100.00
Scotch Pine, T., 2-1, 8 to 12 ins.	15.00	100.00	...
Scotch Pine, T., 2-1, 3 to 6 ins.	12.00	50.00	...
Austrian Pine, 2-0, 3 to 7 ins.	4.50	22.50	100.00
White Pine, T., 2-2, 12 to 16 ins.	15.00	...	...
Red Pine, T., 2-2, 12 to 16 ins.	20.00	...	...
American Arborvitae, T., 16 to 24 ins.	30.00	...	...

All packing and handling charges are included in quotations. Orders will be shipped postpaid, via parcel post, unless other shipment is desired.

#### VAN'S PINES

West Olive, Mich.

#### EVERGREENS

UPRIGHT YEW (Taxus Capitata). These are fine, well-balled plants. TTT.

	Each	Each	Each
375 2 to 3 1/2 ft.	3.25	5.50	8.00
200 3 1/2 to 4 ft.	11.50	10.50	10.00

CANADIAN HEMLOCK, TTT. Bushy plants with fibrous roots.

125 2 to 3 1/2 ft.	6.00	4.75	4.50
125 3 1/2 to 4 ft.	7.00	5.75	5.50
125 4 to 4 1/2 ft.	7.00	6.75	6.50
50 4 1/2 to 5 ft.	8.00	7.75	7.50

JUNIPERUS COLUMNARIS, JUNIPERUS KETELEERI, JUNIPERUS MAScula, TTT. Quality sheared plants.

4 to 3 1/2 ft.	4.50	4.25	4.00
3 1/2 to 4 ft.	5.00	4.75	4.50
4 to 4 1/2 ft.	6.00	5.75	5.50
4 1/2 to 5 ft.	7.00	6.75	6.50

No boxing. Prices F.O.B. Terre Haute. Terms: Net cash unless satisfactory references are furnished in advance.

You are invited to inspect these.

HAAS HOME NURSERIES

29th and Poplar Sta. Terre Haute, Ind.

#### QUALITY LINERS

	Per 100
Douglas Fir, 4 to 6 ins., T.	\$15.00
Canadian Hemlock, 4 to 8 ins., T.	17.50
Colorado Blue Spruce, 4 to 8 ins., T.	17.50
Mugho Pine, 4 to 8 ins., T.	20.00
Pfizer Juniper, 6 to 8 ins., T.	25.00
Pyramidal Arborvitae, 6 to 8 ins., T.	25.00
Taxus Cupidata, 6 to 8 ins., T.	25.00
Taxus Hatfieldi, 6 to 8 ins., T.	25.00
Taxus Hicksi, 6 to 8 ins., T.	25.00
American Holly, 8 to 12 ins., T.	27.50
Azalea Mollis, 8 to 12 ins., T.	35.00
Viburnum Carlesii, 4 to 8 ins., T.	35.00
Pyracantha Lalandi, 2 1/2-in. pots	37.50
Rho. Hybrids, 8 to 12 ins., heavy T.	45.00
Pink Dogwood, 10 to 15 ins., grafts	75.00

#### POSSUM HOLLOW NURSERIES

6327 Magnolia St. Philadelphia 44, Pa.

#### EVERGREEN LINERS

	Each
Ilex Rotundifolia, 1-yr., 2 1/2-in. pots	\$0.15
Ilex Crenata Convexa, 1-yr., 2 1/2-in. pots	.15
Ilex Burfordi, 1-yr., 2 1/2-in. pots	.20
Nandina, 1-yr., 2 1/2-in. pots	.15
Juniperus Hetzi, 1-yr., 2 1/2-in. pots	.20
Biota Bakeri, 1-yr., 2 1/2-in. pots	.15
Arborvitae, Pyramidal, 1-yr., 2 1/2-in. pots	.15
Arborvitae, Globe Woodward, 1-yr., 2 1/2-in. pots	.15
Arborvitae, Globe Woodward, 2-yr., T. beds	.20

These are nice liners for fall, 1953, or spring, 1954. Prices F.O.B. Baxter. The each rate applies to all orders.

#### JOHNSON'S NURSERY

Baxter, Tenn.

### SPECIAL ON FLORETUM 1-YR. STOCK

To pot and grow on Per 100

Biota Dwarf Compacta, 5 to 8 ins.	\$4.00
Biota Golden Aurea, 2 to 6 ins.	
Biota Pyramidalis, 2 to 8 ins.	
Colorado Blue Spruce, 1 to 3 ins.	
Japanese Cedar, 2 to 6 ins.	
Plume Cedar, 2 to 6 ins.	
Larix Europaea, 2 to 6 ins.	
Austrian Pine, 3 to 4 ins.	
Pinyon Pine, 2 to 3 ins.	
Ponderosa Pine, 2 to 4 ins.	
Red Pine, 2 to 3 ins.	
Scotch Pine, 2 to 4 ins.	
White Pine, 2 to 4 ins.	
Tritolite Orange, 3 to 8 ins.	

#### FAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

#### LINING-OUT STOCK

	Per 100
Douglas Fir, 5 to 10 ins.	\$15.00
Colorado Blue Spruce, 4 to 10 ins.	15.00
American Arborvitae, 6 to 12 ins.	15.00

#### 3-YR. SEEDLINGS

	100	1000
Scotch Pine, 18 to 18 ins.	\$6.00	\$35.00
Austrian Pine, 8 to 14 ins.	6.00	35.00
Norway Spruce, 8 to 12 ins.	4.00	30.00

#### ARTHUR CASH NURSERY

Angola, N. Y.

#### HEAVY FIELD-GROWN LINERS

500 Thuja Elegansissima, 10 to 12 ins., XX.	\$0.45
200 Juniper, Hill's Golden, 18 to 15 ins., XX.	.60
1000 Juniperus Pfitzeriana, 9 to 12 ins., XX.	.50
1000 Juniperus Pfitzeriana, 12 to 13 ins., XX.	.60

These are heavy rooted and far above average. Fall or spring shipment. Cash with order.

#### DAMASCUS NURSERIES

Box 216 Damascus, O.

#### ROOTED CUTTINGS AND 1-YR. TRANSPLANTS

	Per 100
Globe Arborvitae, 6 to 7 ins.	\$15.00
Taxus Cupidata, 6 to 10 ins.	8.00
Taxus Hicksi, 8 to 10 ins.	15.00

#### 1-YR. TRANSPLANTS

Juniper, Andorra Plumosa, 7 to 8 ins. 15.00

Juniper, Andorra Stricta, 7 to 8 ins. 15.00

Juniperus Hetzi Glauca, 9 to 10 ins. 15.00

Taxus Cupidata, 9 to 10 ins. 15.00

#### NEIDEL'S NURSERY

Mtd. R. 4 Oil City, Pa.

#### BALSAM FIR

For Christmas Trees Round needle type carefully collected, putted and properly packed. These seedlings are tall enough to survive in heavy grass, weeds or trash in any plantation.

8 to 12 ins., \$35.00 per 1000  
12 to 18 ins., 40.00 per 1000  
We will ship 10% extra stock with order of 5000 or over.

#### ST. REGIS TREE NURSERY

St. Regis Falls, N. Y.

#### FINE GRAFTING STOCKS

BIOTA ORIENTALIS—2-yr., bed-grown in soil prepared to produce fibrous root systems. Healthy, vigorous plants are essential to successful grafting. \$45.00 per 1000. Lighter grades, 2-yr., 10 to 14 ins. \$30.00 per 1000; 1-yr., 3 to 5 ins. \$15.00 per 1000. These are packed to reach you in first-class condition.

#### SOUTHERN NURSERY

Rt. 7, Box 254A Oklahoma City, Okla.

#### FINISHED EVERGREENS

For Landscape Planting

	Per 10
Canadian Hemlock, 4 to 5 ft.	\$6.50
Canadian Hemlock, 5 to 6 ft.	7.50
Taxus Cupidata, 18 to 24 ins.	3.00
Taxus Cupidata, 2 to 2 1/2 ft.	4.25
Taxus Hicksi, 2 1/2 to 3 ft.	4.50

Write for Trade List.

#### B. F. BARR & SON NURSERIES

R. D. 2, Lancaster, Pa.

#### BUXUS SEMPERVIRENS PLANTS

1-yr. old, 6 to 12 in. high. Well-rooted and healthy plants. State inspected and certified, 20c each. In lots of 1000 only. Cash with order. Ready for shipment October 1.

#### BENSON'S BOXWOOD NURSERY

Forrest Benson, Mgr. Alharetta, Ga.

#### NORWAY PINE

Offering field-grown Norway Pine for Christmas trees, sizes 5 to 6 ft., 6 to 7 ft. and 7 to 8 ft. We have several large trucks for truck delivery. Also, motor freight service. Write for price list.

#### FAIRMONT NURSERY

Fairmont, Minn.

#### EVERGREENS

Evergreen seedlings and transplanted lining-out stock of 3-yr. Arborvitae, Fir, Juniper, Pine, Spruce and Yew. Good stock, reasonably priced. Now booking orders for fall and spring delivery. Price list on request.

#### C. WILSON'S NURSERY

Pembine, Wis.



## EVERGREENS—Continued

## GRAFTING UNDERSTOCKS

Per 1000  
 Juniperus Virginiana, 2-yr., S.,  
 3/4 to 1 1/2-in. cal. .... \$95.00  
 Chinese Arborvitae, 2-yr., S.,  
 3/4 to 1 1/2-in. cal. .... 45.00  
 Bare-root, from undercut seedbeds, pud-  
 dled, moist-packed.  
**LUKE NURSERY** Pauls Valley, Okla.

## DWARF BOXWOOD

Border your flower beds and walks with  
 our Old English Buxus Suffruticosa, several  
 years old. Field-grown, compact, good color,  
 4 to 6 ins., \$25.00 per 100; 6 to 8 ins., \$50.00  
 per 100.

## PINKSTON NURSERIES

Parrott, Ga.

**FLORETUM LINE-OUTS EACH PER 100**  
 Pyracantha coccinea lalandi, strong T.,  
 many branched, 6 to 10 ins., 20¢; 2-in. bands,  
 2-yr., well-branched, 35¢. Magnolia Grandi-  
 flora, 1-yr., excellent rooted plants, 4 to 6  
 ins., 15¢. Trifoliolate Orange, 3 to 8 ins., 4¢.  
**PRAIRIE SOUTHWEST FLORETUM**  
 Fall River, Kan.

## AMERICAN BOXWOOD

Per 100  
 Buxus Sempervirens, field-grown.  
 10 to 12 ins. .... \$ 50.00  
 12 to 15 ins. .... 75.00  
 15 to 18 ins. .... 100.00

## PINKSTON NURSERIES

Parrott, Ga.

## EVERGREENS

500 Blue Pfitzer Junipers, 4-in. pot, 50¢  
 each. 400 Golden Euonymus, 4-in. pot, 50¢  
 each. 100 Silver Euonymus, 4-in. pot, 60¢  
 each.

A. J. BUTTERFIELD, Farmington, Mo.

## BUXUS SEMPERVIRENS

Each  
 500 Buxus Sempervirens, 18x15 ins. .... \$2.00  
 500 Buxus Sempervirens, 12x9 ins. .... 1.00  
 Balled, well-rounded 5 years old.  
 A. J. BUTTERFIELD, Farmington, Mo.

## NURSERY STOCK

B&B and L. O. Stock, Colorado and Black  
 Hills Spruce, White Pine, Mugho and Aus-  
 tralian Pine, Douglas Fir. Also shade trees and  
 large shrubs. Priced for quick sale.  
**PEQUOT NURSERIES** Brainerd, Minn.

## ENGLISH BOXWOOD

1 ft. to 5 ft.  
**GLADYS LEDNUM**  
 139 N. Washington St.  
 Easton, Md.

## LINING-OUT STOCK

**PYRACANTHA COCCINEA LALANDI**, 2 1/2  
 ins. T, pinched, 2 1/2¢; 3 ins. TT, 3 1/2¢  
 cash.  
**BABCOCK GARDENS**, R. 3, Jamestown, N. Y.

## GRASS

## GRASS

Washington and Cohansey creeping bent  
 grass, also Juniper Pfitzer and Taxus in all  
 sizes.

## BILL'S NURSERY

6060 Breckville Rd. Cleveland 9, O.

## GROUND COVERS

**VINCA MINOR**, MYRTLE PERIWINKLE  
 Fresh-dug, individually made up, 15 to 20-  
 cane clumps, \$50.00 per 1000. 30-cane clumps  
 \$90.00 per 1000.  
 Pachysandra, strong 1-yr., rooted, \$55.00  
 per 1000.  
 Hall's Honeysuckle, branched, \$45.00 per  
 1000.

## H. C. WAUGH

R. D. No. 2 Cheshire, O.

## GROUND COVERS

**PACHYSANDRA TERMINALIS**, 2 1/2 ins.,  
 showy stock for landscaping, \$12.00 per  
 100.  
**BABCOCK GARDENS**, R. 3, Jamestown, N. Y.

**PACHYSANDRA TERMINALIS**, strong  
 rooted cuttings, \$3.75 per 100, \$35.00 per 1000.  
 Beetle Zone only. Over 5000, \$32.50 per 1000.  
**DUNWOODIE NURSERIES**, 6 Smart Ave.,  
 Yonkers, N. Y. Yonkers 5-1473

**PACHYSANDRA TERMINALIS**  
 Strong, 1-yr., field-grown, \$65.00 per 1000.  
**HILLCREST GREENHOUSES**, Franklin, Pa.

## HARDY PLANTS

## BLEEDING HEARTS

Per 100  
 Dicentra Spectabilis, 3 to 5-eye ..... \$25.00  
 Dicentra Spectabilis, 5 to 8-eye ..... 35.00

Also Peonies and Day Lilies.

## ROBINSON GARDENS

Scotts, Mich.

Giant Double Lily of the Valley (rare), \$50.00  
 per 100 pips. Delivery October-November.  
**R. BAKER** Owego, N. Y.

## PEONIES—IRIS—LILACS

**PEONIES**—3 to 5-eye divisions. Prices per  
 10. Couronne d'Or, Baroness Schroeder,  
 Solange, \$3.50; Jubilee, Milton Hill, \$4.50;  
 Martha Bulloch, Mrs. Edward Harding,  
 Therese, \$6.00; Myrtle Gentry, \$7.50.  
**IRIS**—Extra-good named varieties in as-  
 sortment, our selection, \$8.00 per 100; \$25.00  
 per 500. Queen Katerina, Prospero, \$1.00 per  
 10; California Gold, Christabel, \$2.50 per 10;  
 Sibirica, \$1.20 per 10.

**PACHYSANDRA TERMINALIS**—Strong  
 2-yr., field-grown, \$10.00 per 100, \$17.00 per  
 500.

**LILACS**—Persian, 3 to 4 ft., 65¢; French,  
 President Grevy and Thunbergi, 2 to 3 ft.,  
 85¢.

Also limited quantity R&B Juniperus  
 Pfitzeriana, 1 1/2 ft., \$4.00; 2 ft., \$4.50; Juniperus  
 Virginiana, 3 to 4 ft., \$4.00; Juniperus  
 Dundee, 3 ft., \$5.50; Black Hills Spruce, 1 1/2  
 ft., \$2.75.

Cash with order, please.

**HARRY FRANKLIN BAKER, INC.**

1910 N. Eustis St. Paul 8, Minn.

## FIELD-GROWN PERENNIAL PLANTS

1 and 2-year-old.

Per 100 Per 1000  
 Aquilegia Dobbie's Hyb., mixed ..... \$5.00 45.00  
 Delph. Belladonna, 1. blue ..... 5.00 45.00  
 Delph. bellamosum, d. blue ..... 5.00 45.00  
 Funkia, lavender (strong div.) ..... 6.00 55.00  
 Gypsophila paniculata, 2-yr. .... 6.00 55.00  
 Lily tenuifolium (Coral) 2-yr. .... 7.00 55.00  
 Oriental Poppy, orange-scarlet ..... 6.00 55.00  
 2-yr. .... 6.00 55.00  
 Statice latifolia, 2-yr. .... 6.12 55.00

Per 12 Per 100

Eremurus Sheldoff Hybrids, mixed  
 medium blooming size ..... \$9.00 \$70.00

Peony, Queen Emma, good pink,  
 3 to 5-eye ..... 3.60 25.00

Bleeding Heart (Dicentra Spectabilis),  
 3 to 5-eye ..... 3.60 25.00

Cash with order, please.

## NOVOTNY GARDENS

OSAGE, IA.

## PERENNIALS AND ROCK PLANTS.

## LARGE FIELD-GROWN STOCK.

## FRESH DUG FOR EACH ORDER.

Aquilegias, 6 separate colors; Arabis, Cam-  
 panulas, Carnations, Chrysanthemums, Del-  
 phinium Pacific Hybrids, 10 varieties; Dian-  
 thus, Bleeding Hearts, Digitalis, Doronicum,  
 Gaillardias, Geums, Iberis Sempervirens,  
 Liatris, Russell Lupines, Phlox Subulata, 12  
 good varieties; Pyrethrum Daisies, Shasta  
 Daisy Esther Read, Scabiosa Isaac House,  
 Sedums, 10 varieties; Sweet Williams, Thy-  
 mus, 5 varieties; Hen-and-Chickens, 10 var-  
 ieties; Veronicas, Violas, 10 varieties; Violets.  
 Many other good items. If you have not re-  
 ceived our new fall list, send for it now. Ship-  
 ping season began September 15.  
**GEORGE FRANK & SON, PENFIELD, N. Y.**  
 Member of A.A.N.

## BLEEDING HEARTS

Per 100  
 Dicentra Spectabilis, 3 to 5 ..... \$25.00  
 Dicentra Spectabilis, 5 to 8 and up ..... 40.00  
 Dicentra Eximia, 3 to 5 ..... 15.00  
 Dicentra Eximia, 5 to 8 and up ..... 20.00  
**J. HENDRIKS, GROWER**  
**PORTAGE, MICH.**

## LYTHRUM MORDENS PINK

Per 100 Per 1000  
 1-yr., field-grown ..... \$16.00 \$140.00  
 Liners ..... 6.00 50.00  
**PLANE VIEW NURSERY**  
 Newport, R. I.

**DIANTHUS**—All doubles: Evangeline, Per-  
 sian-rose; Purity, white; June Carmine,  
 carmine-pink.

Strong field divisions, \$8.00 per 100, 25 at  
 the 100 rate.

**GRUNDY'S GARDENS**, Anton, Texas

## DELPHINIUM PACIFIC HYBRIDS

Mixed colors from 2-in. pots, 9¢.

**SHASTA DAISIES**

Majestic, best single, and Aglaya, best  
 double, field divisions, 15¢.

**RUSSELL BREECE**, Delaware, O.

## HARDY PLANTS

Heuchera Sanguinea, 1-yr. T., \$5.00 per 100.  
 Aquilegia Mrs. Scott Elliot, strong trans-  
 plants, \$3.50 per 100.  
 Achilles The Pearl, divisions, \$5.00 per 100.  
**F. C. KOHLER**, Mikado, Mich.

## PERENNIALS

New and standard kinds.

New wholesale list now ready.

## CARROLL GARDENS

Box 15 Westminster, Md.

## America's Best Source

## FOR HARDY PLANTS IS

## THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

## FEVERFEW

Feverfew, Ball's Double White,  
 Strong transplants, \$2.50 per 100.

**F. C. KOHLER**, Mikado, Mich.

Pansies, perennials and rock plants in  
 wide variety. Send for catalog.

**PITZONKA'S PAID FARM & NURSERY**

Bristol, Pa.

## HARDY FERNS

Ostrich, Clayton, Lady and Maidenhair,  
 \$7.50 per 100; XX size, \$10.00.  
**STRAND NURSERY CO.**  
 Taylors Falls, Minn.

## HOLLY

## HOLLIES

One and Two-year Liners

Excellent Garden Mart Items

Immediate Delivery

Each per 100

Ilex aquifolium argentea marginata,  
 beautiful silver variegated holly, 1-yr.,  
 3-in. pots ..... \$0.65  
 Ilex altacalensis belgica, 12 to 15 ins.,  
 4-in. pots, a subzero, English holly,  
 large glossy ..... 1.60  
 Ilex cornuta, special No. 3, 12 to 15 ins.,  
 3-in. pots, fine foliage plant ..... .95  
 Ilex pernyi, 10 to 15 ins., 3-in. pots ..... .95  
 All root balls wrapped in polythene for  
 safe shipment. Cash with order please. For  
 complete trade list, write:

**WILMAT HOLLY CO.**

Box 304 Narberth, Pa.

## HOLLY

## HARDY, CALIFORNIA-GROWN

Female Plants, cutting-grown out of 3-in.  
 pots.

Per 100

Ilex Aquifolium, green, 10 to 12 ins. .... \$45.00

Ilex Aquifolium, variegated, 6 to 8 ins. .... 55.00

Ilex Cornuta Burfordi, 6 to 8 ins. .... 30.00

**DESCANSO DISTRIBUTORS, INC.**

Wholesale Growers

Pipeline and Walnut Chino, Calif.

## IVIES

**BALTIC IVY**, Rooted cuttings, 5¢; 2-in.  
 pots, 10¢; 2-yr., 2 1/2-in. pots, 15¢.

**EUONYMUS RADICANS**: Erecta, Patens,  
 Newport, Carrierel and Coloratus. Rooted  
 cuttings, 6¢; 2-in. pots, 10¢; 2-yr., field, XX,  
 20¢.

**STRATFORD GARDENS**, Delaware, O.

**HARDY ENGLISH IVY**, very strong, 2 ins.,  
 \$10.00 per 100, \$85.00 per 1000.

**BALTIC IVY**, \$10.00 per 100, \$85.00 per  
 1000.

## JACOB SCHULZ

831 Cherokee Rd., Louisville 4, Ky.

Hardy ENGLISH IVY from stock surviving  
 in our nursery at below zero temperatures.  
 Strong, R.C., \$30.00 per 1000. Cash.

Baltic Ivy, R.C., \$4.50 per 100.

## BABCOCK GARDENS

R. 3 Jamestown, N. Y.

## BALTIC IVY

2-yr., B.R., out of flats, 10¢ each.  
 2-yr., heavy, 2 1/2-in. pots, 15¢ each.  
**HAGGERTY LANDSCAPE NURSERY**  
 2500 So. 48th St. Lincoln, Neb.

## IRIS

## GERMAN IRIS

Kansas Ingleside, 36 ins., large, rusty-red,  
 Glad Song, 24 ins., mulberry and yellow.  
 Autumn Dawn, 28 ins., ruffled, soft pink and  
 yellow blend. Autumn Elf, 24 ins.; standards,  
 cream; falls, lavender with cream edge.  
 Marty Everest, 36 ins., very large, sky blue.  
 Beauties, \$8.00 per 100, 25 at 100 rate. Not  
 less than 100 per order.

## THE HARRIS GARDENS

Enterprise, Kan.

## LINING-OUT STOCK

## ORNAMENTAL ARISTOCRATS

Choice varieties not found in many cata-  
 logs as well as many of the old favorites.  
 Established in 1921 and still growing strong.  
 Fall and spring catalog sent on request to  
 members of the trade only. Specials on  
 Althaea, Dogwood, Japonica, Holly, Taxus  
 and Wistaria.

## JOHN VERMEULEN &amp; SON, INC.

Neshanic Station, N. J.

## LINING-OUT STOCK

Strong greenhouse-grown rooted cuttings  
 of Globe Arborvitae, Pfitzer Juniper, Taxus  
 Cupidata, Taxus Cupidata, Capitata and  
 Taxus Hicksi, \$8.00 per 100, \$75.00 per 1000.  
 Strong 2-year transplants, peat ball of  
 Azalea Amoena and Pieris Japonica, \$15.00  
 per 100. Cash.

**WESTWOOD GARDENS**, Caldwell, N. J.

## PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.  
 2 1/2-in. pots, T., 6 to 8 ins., bushy, \$22.50 per  
 100; 3-in. pots, TT., 8 to 10 ins., bushy, \$32.50  
 per 100.

Well-rooted. Immediate shipment. Cash.

## BABCOCK GARDENS

Rt. 3, Jamestown, N. Y.

## LINING-OUT STOCK

Per 100 Per 1000

Euonymus Vegetus, R.C., from  
 greenhouse, 6 to 9 ins. .... \$ 7.00 \$ 60.00

Euonymus Vegetus, 1-yr., field  
 T., 6 to 10 ins. .... 16.00 140.00

**RIDGEVIEW NURSERY**

E. Middle Ridge Madison, O.

## LINING-OUT STOCK

Magnolia Kobus understock. Correct diameter for winter grafting, \$17.00 per 100, \$160.00 per 1000. F.O.B. E. Rutherford, packing is extra, at cost.

## BOBBINK NURSERIES, INC.

558 Paterson Ave.  
E. Rutherford, N. J.

## LINING-OUT STOCK

Euonymus Patens Picta, small leaf patens, from 2 1/4-in. pots, 12c ea. per 100; 10c per 1000. Write for list on forest and fruit tree seedlings.

## J. H. SKINNER &amp; CO.

Rt. 6 Topeka, Kans.

## PEONIES

QUALITY PEONIES  
3 to 5-eye divisions

	Per 100
Avalanche, large white.....	\$30.00
Festiva Maxima, early white.....	30.00
Mons. Jules Elie, large early pink.....	35.00
Myrtle Gentry, best light pink.....	75.00
Souv. de Louis Blot, bright pink.....	40.00
Double white, unlabeled.....	22.50
Double pink, unlabeled.....	22.50

25 at 100 rate.

## WHITE CLOUD FARM

Carthage, Mo.

## PEONIES

	Per 10	Per 100
Brand's Magnificent.....	\$5.50	\$50.00
Longfellow.....	5.50	60.00
Martha Bulloch.....	6.50	60.00
Mary Brand.....	6.00	55.00
Monsieur Jules Elie.....	4.50	40.00
Richard Carvel.....	6.50	60.00
Sarah Bernhardt.....	4.50	40.00
Strong, 3 to 5-eye divisions. Cash, F.O.B. Marshalltown.		

## WHEELLOCK WILSON NURSERY

Marshalltown, Ia.

## PEONIES

Top-quality, large divisions, \$30.00 per 100. Varieties, Felix Crousse, Karl Rosefeld, red; Festiva Maxima, white; Edulis Superba, pink. Shipment after September 15.

## GILBERTSON NURSERY

Kindred, N. Dak.

## GRAFTED TREE PEONIES

## LAKE SAMMAMISH EVERGREEN

## NURSERY

Rt. 1, Box 79 East Stanwood, Wash.

## PHLOX

## PHLOX SUBULATA

Also known as Moss Phlox. Our plants are wonderful this year. We ship only undivided clumps as they come from the field.

	Per 10	Per 100
Blue Emerald, a blue sport of		
Emerald Cushion.....	\$1.60	\$13.00
Blue Hill, showy pale blue.....	1.60	13.00
Emerald Cushion Pink, glossy		
evergreen foliage with extra		
large florets of pure unbleached		
pink.....	1.60	13.00
Lilacina, lilac.....	1.60	13.00
Rosea, bright rose.....	1.60	13.00

Phlox Amoena, a mound of rose-pink florets, center of mound 10 ins. high when in bloom..... 1.60 13.00

Write for special prices on quantity lots.

Terms:

Cash or 25% with order, balance C.O.D.

## WALTERS GARDENS

Rt. 2 Zeeland, Mich.

## PHLOX

Sand-grown. Excellent for Propagation. Decussata, 80 varieties  
Subulata, 10 varieties  
Write for our catalog. Order now to be sure to get all the varieties you want.

## WELLER NURSERIES CO.

Holland, Mich.

## HARDY PHLOX

Our new crop of thrifty 1-yr.-old Phlox plants will be ready by October 15. Please write for trade list.

## WALTERS GARDENS

Rt. 2 Zeeland, Mich.

## ROSEBUSHES

## ARP-GROWN ROSEBUSHES

Place your orders for fall and winter shipments now. All-America Rose selections and favorite standard varieties. Assured quality shipped field-fresh. Write for 1953 and 1954 prices. Use company letterhead, please.

## ARP NURSERY CO.

Box 867-A Tyler, Tex.

## ROSEBUSHES

Nice selection of patented and nonpatented roses. Wide assortment to choose from. List now ready.

## MARTIN'S ROSE NURSERY

Box 155, Phone 713 Arp, Tex.

## ROSES

Roses that make friends and influence customers. Write for your copy of our new price list.

## NEW LONDON ROSES

P. O. Box 876, Overton, Tex.

## ROSEBUSHES

Two-year-old field-grown. FREE PACKING. NO CHARGE FOR BOXING. 5 per cent discount on orders of 500 to 1000 and 10 per cent, 1000 up. STANDARD ONLY.

## "AN HONEST DEAL ON ROSES"

RED	TWO-TONE
Ami Quinard	Comtesse Vandal
Better Times	Condesa de Sagato
Charles K. Douglas	E. N. Perkins
Christopher Stone	Prae Hoover
Crimson King	Talisman
E. G. Hill	WHITE
Etoile de Hollande	Caledonia
Grenoble	F. K. Druschki
Mary Hart	K. A. Viktoria
McGredy's Scarlet	Konigin Luise
Night	White American
Red American Beauty	Beauty
Red Druschki	White Radiance
Red Radiance	POLYANTHAS &
Red Talisman	FLORIBUNDAS
Rouge Mallerin	Baby Chateau
Syracuse	Else Poulsen
PINK	Floradora
Betty Upchurch	Golden Salmon
Briarcliff	Ideal
Columbia	Kirsten Poulsen
Contrast	Mrs. R. M. Finch
Dainty Bess	Orange Triumph
Editor McFarland	Red Lafayette
Paul Neyron	Red Ripples
Picture	CLIMBERS
Pink Radiance	Better Times
Shell Pink Radiance	Blaze
The Doctor	Caledonia
YELLOW	Cecile Brunner
Golden Charm	Etoile de Hollande
Golden Dawn	Golden Charm
Golden Ophelia	Marechal Niel
Improved du Pont	Mary Hart
Luxembourg	Mrs. P. S. du Pont
McGredy's Yellow	Paul's Scarlet
Mrs. P. S. du Pont	Pink Radiance
Numa Fay	Red American Beauty
Sœur Therese	Red Radiance
Yellow Condesa	Red Talisman
	Rouge Mallerin
	Talisman

PRICES: STANDARD: XXX, 48c ea.; No. 1, 42c ea.; No. 1 1/2, 32c ea., and No. 2, 24c ea. Please add 5c per bush extra for broken bundles of 10 of grade and variety. PRE-PACKAGED: Individually wrapped, paraffin dipped, and picture tag attached for 10c extra per bush on all varieties. Cash with order, 25 per cent deposit and balance C.O.D. PLEASE WRITE FOR FULL DESCRIPTIONS ON BETTER PATENT VARIETIES. NEW LONDON ROSES  
P. O. Box 876 Overton, Tex.

## ROSEBUSHES

2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

## ROSEMOUNT NURSERIES

D. L. Thompson, owner Tyler, Tex.

## SEEDLINGS

RED MAPLES	Japanese Maple Seedlings
100 True Red	
All Red Branched Transplants	
Each	Each
100 rate	1000 rate
2-yr., 6 to 18 in. XX.....	\$0.40
2-yr., 8 to 10 in. XX.....	.45
2-yr., 10 to 12 in. XX.....	.55
A 20 per cent deposit will reserve your order.	

Bare-root packed in sphagnum. Specializing in Maple Seedlings. Shipments Late October on.

## ELWOOD HURBS

Rt. 130 Riverton, N. J.

## NANDINA DOMESTICA SEEDLINGS

6 to 8 ins., \$8.00 per 100, \$70.00 per 1000.

## PINKSTON NURSERIES

Parrott, Ga.

## SEEDS

NEW CROP SEED, PER LB.
Red Cedar Platt, c.s., \$1.00, d.b., 80c
Arborvitae Chinesis (Kansas), \$2.60
Bush Cherry, \$3.00
Common Lilac, \$3.25
Rose Multiflora, thorny type, \$3.25
Tatarian Honeysuckle, c.s., \$3.50
American Olive, \$1.00
Russian Olive, c.s., 90c d.b., 35c
French Crab, \$2.00
Honey Locust, thornless, 90c
Choke Cherry, \$1.10
Complete list of tree shrub seed and quotations on request.
Iris Spuria Ochroleuca, Goldband Iris, \$7.50 per 100.

## FORESTRY SEED SERVICE

Div. of Home Nursery  
Cuba, Kans.

## MULTIFLORA ROSE SEEDS

Picked from thorny, upright plants. Order now for fall delivery from 1953 crop. F.O.B. Per lb.

1 to 5 lbs.....	\$3.90
6 to 25 lbs.....	3.65
26 lbs. or more.....	3.40

## FARMLAND IMPROVEMENT CO.

Box 124 Yorkville, Ill.

## 1953 CROP, FRESH SEED

Per lb.

CATANEA MOLLISSIMA.	
Chinese Chestnut.....	\$1.25
CATANEA PUMILA, Chinkapin.....	1.25
CATALPA BIGNONIODES,	
Indian Bean.....	1.35
CORNUS ALBA, White Dogwood.....	.75
PECAN.....	.30
QUERCUS VIRGINIANA,	
Evergreen Oak.....	1.85
ILEX GLABRA, Smooth Leaf Holly.....	.75

## STOVALL NURSERY

Leakesville, Miss.

## BLUEGRASS LAWN SEED

"Pure Ky." Acute shortage this year. Price F.O.B. Cash. Subject to supply on hand. 100-lb. bag, \$110.00; 50-lb. bag, \$55.00; 25 lbs., \$28.75; 10 lbs., \$11.50.

## WALNUT LAWN FARM

Rt. 2 Lexington, Ky.

## SHRUBS and TREES

## LILACS

We have the following fine lilacs in surplus over our retail requirements. They are all on their own roots, having been grown as rooted cuttings. Each per 10, 75c; each per 20, 70c; each per 30, 65c.

## French Hybrids

10 Francisque Morel, 8 to 18 ins.	
10 Jules Ferry, 8 to 18 ins.	
30 Monge, 8 to 12 ins.	
20 Lucie Baltet, 8 to 12 ins.	
10 President Lincoln, 8 to 12 ins.	
10 Mrs. Edward Harding, 8 to 15 ins.	
30 Beaumur, 8 to 12 ins.	
Late Varieties and Prestoniae Hybrids	
20 Villosa, 8 to 12 ins.	
10 Coral, 8 to 12 ins.	
30 Lutecce, 8 to 15 ins.	
30 Isabella, 8 to 18 ins.	
30 Floral, 8 to 18 ins.	

Shipment in November. Beetle inspected where necessary. Express collect. Remittance with order please.

## STRAWBERRY HILL

Fine Lilacs and Lilacs.

Rhinebeck, N. Y.

## FALL SPECIALS

	Per 100	Per 1000
Prunus tomentosa (Nanking Cherry), 4 to 6 ins., seedlings.....	\$5.00	\$45.00
Prunus tomentosa (Nanking Cherry), 6 to 12 ins., seedlings.....	7.00	65.00
Elaeagnus angustifolia (Russian Olive),		
6 to 12 ins., seedlings.....	1.65	15.00
12 to 18 ins., seedlings.....	2.75	25.00
18 to 24 ins., seedlings.....	4.00	37.50
2 to 3 ft., seedlings, heavy.....	5.50	50.00
3 to 4 ft., seedlings, br.....	8.50	75.00
Ulmus pumila (Chinese Elm,		
2-yr., R.P.),		
2 to 3 ft., R.P., seedlings.....	5.00	45.00
3 to 4 ft., R.P., seedlings.....	7.50	65.00

Terms: Cash with order. Packing free. November shipment.

## PIPER-FILBY NURSERY

P. O. Box 127 Manhattan, Kan.

## FALL SURPLUS STOCK

	Per 100
200 Cedrus Atlantica Glauca,	
12 to 15 ins., L.O.....	\$150.00
50 Cotoneaster Apiculata,	
12 to 15 ins.....	150.00
200 Davidia Involucrata, 3 to 3 ft.,	600.00
100 Pink Dogwood, 3 to 4 ft.,	350.00
100 Euonymus Alatus Compactus,	
18 ins.....	150.00
100 Fagus Sylvatica Fastigiata,	
2 to 3 ft.....	400.00
200 Fagus Sylvatica, Purple Weeping,	
2 to 3 ft.....	450.00
200 Fagus Sylvatica Tricolor,	
2 to 3 ft.....	450.00
30 Hawthorn Paul's Scarlet, 7 to 8 ft.	500.00
50 Rhus Cotinus Rubrifolium,	
2 to 3 ft.....	150.00

Cash with order.

## BRIMFIELD GARDENS NURSERY

245 Brimfield Rd., Wethersfield 9, Conn.

## 1-YR. SEEDLINGS

	Per 100	Per 1000
Cornus Florida, grafting grade.....	\$ 6.00	
Acer Dasycarpum, 18 to 24 ins.	3.00	\$25.00
Transplants		
Hex Convexa, 1-yr., 4 to 6 ins.,	15.00	140.00
Hex Convexa, 2-yr., heavy br.,	20.00	190.00
Buxus Sempervirens, 1-yr.,		
6 to 8 ins.....	15.00	
Azalea Pink Pericat, 3-yr., 8x8,	35.00	
Azalea Schlippenbachii, 4-yr.,	65.00	
Tsuga Canadensis, 4-yr.,		
6 to 8 ins.....	10.00	90.00
Tsuga Canadensis, 4-yr.,		
8 to 10 ins.....	15.00	
Taxus Hickel, 5-yr.,		
10 to 12 ins., heavy.....	50.00	

Cash with order. Free packing.

## RUMMEL NURSERIES

Pompton Plains 1, N. J.

## CITRUS TRIFOLIATA

Seedlings, 2 to 4 inches, \$3.00 per 100, \$25.00 per 1000. Postpaid. Cash please.

## PERRY'S NURSERY

Woodbine, Ga.

## SHRUBS and TREES—Continued

NURSERY STOCK	
Extra-heavy and Ready for the Field	
For 100	
<i>Taxus cuspidata</i> capitata, 10 to 12 ins.	55.00
3-yr., TT	50.00
<i>Taxus cuspidata</i> , 10 to 12 ins.,	150.00
3-yr., TT	45.00
<i>Taxus media</i> hickel, 12 to 15 ins.,	40.00
6-yr., TTT field	35.00
Two-yr. plants (1 yr. in pots and 1 yr. in open field beds)	15.00
<i>Taxus cuspidata</i> capitata, 8 to 10 ins.	10.00
<i>Taxus cuspidata</i> , 8 to 10 ins.	35.00
<i>Taxus cuspidata</i> brownl, 6 to 8 ins.	40.00
<i>Taxus media</i> hickel, 8 to 10 ins.	35.00
European White Birch, 12 to 18 ins., S.	15.00
<i>Euonymus yedoensis</i> , 8 to 12 ins.	10.00

FRED P. STROHL  
1404 N. Anthony Blvd., Fort Wayne, Ind.

PIN OAKS	
Nursery-grown.	
1 1/2 to 2 ins.	B.R. B&B \$ 8.25 \$14.85
2 to 2 1/2 ins.	12.10 20.90
2 1/2 to 3 ins.	16.50 30.25
3 to 3 1/2 ins.	22.00 41.80

RED OAK, SWEET GUM, SUGAR MAPLE, RED MAPLE, NORWAY MAPLE.  
In assorted sizes.  
Sixty-five acres of choice landscape material in rare and unusual varieties. Priced individually according to value. No catalog; no shipping. Your inspection invited.  
GEORGE F. BLOOMER NURSERIES  
Rt. 69, Flemington, N. J.  
Phone 155

SHRUB LINERS	
	Per 100 Per 1000
<i>Aronia Arbutifolia</i> Brilliantissima, 1-yr., seedlings, 4 to 6 ins.	6.00 50.00
<i>Aronia Arbutifolia</i> Brilliantissima, 1-yr., seedlings, 8 to 12 ins.	8.00 75.00
<i>Deutzia Gracilis</i> , 4 to 6 ins.	6.00 50.00
6 to 8 ins.	8.00 75.00
1-yr., field, 8 to 12 ins.	35.00
<i>Forsythia Spring Glory</i> , liners, 4 to 6 ins.	6.00 50.00
liners, 8 to 12 ins.	10.00 90.00
field-grown, 2 to 3 ft.	40.00

ABELIA GRANDIFLORA	
6 to 12 ins., \$12.00 per 100; \$100.00 per 1000.	
12 to 18 ins., \$17.00 per 100; \$150.00 per 1000.	
18 to 24 ins., 2-yr., br., \$45.00 per 100; \$400.00 per 1000.	
2 to 3 ft., 2-yr., br., \$60.00 per 100.	
PERSIAN LILAC	
6 to 12 ins., \$15.00 per 100; \$140.00 per 1000.	
12 to 18 ins., br., \$17.00 per 100.	
18 to 24 ins., 2-yr., br., or more, \$22.50 per 100.	
2 to 3 ft., 3 canes or more, \$32.50 per 100.	
PINK-FLOWERING DOGWOOD	
6 to 12 ins., liners, \$50.00 per 100.	
12 to 18 ins., light br., \$75.00 per 100.	
2 to 3 ft., light br., \$150.00 per 100	

ARNOLD CLARK NURSERY	
Rt. 2, Phone: 0722	McMinnville, Tenn.
EUNYMYUS PATENS	
	Per 100 Per 1000
12 to 15 ins., 2-yr., field-grown, B.R.	4.50 40.00
15 to 18 ins., 2-yr., field-grown, B.R.	5.50 50.00
18 to 24 ins., 2-yr., field-grown, B.R.	7.00 65.00
15 to 18 ins., B&B, heavy, 3-yr. old	19.00 165.00
18 to 24 ins., B&B, heavy, 3-yr. old	24.00 220.00
2 to 2 1/2 ft., heavy, 3-yr. old	33.00 300.00

HAGGERTY LANDSCAPE NURSERY	
2600 So. 48th St.	Lincoln, Neb.
MAGNOLIAS	
Soulangeana, Nigra and Rustica Rubra. We are now booking orders for these finest-quality liners. Many are slightly branched. A sure money-maker for you. Write for our list of items in gallon cans. Wholesale only.	
8 to 12-in. liners	\$30.00
12 to 18-in. liners	35.00
18 to 24-in. liners	40.00
2 to 3-ft. liners	50.00

BLACKWELL NURSERIES, INC.	
Semmes, Ala.	
NURSERY STOCK	
500 Colorado Blue Spruce, good shape, with many good shiners and ranging from 4 1/2 to 8 ft., \$2.00 per ft.	
500 American Pyramidal Arborvitae, ranging from 3 1/2 to 7 ft. at reasonable prices.	
500 Azalea Mollis, with many buds ranging from 9 to 21 ins. Well branched. All of the above stock in to be dug and hauled by purchaser. Price list on request.	

SYLVANIA NURSERY & PEAT CO.	
State Rts. 351 and 168, New Galilee, Pa.	
HYDRANGEA	
100 Each 1000 Each	
Hydrangea P. G., 2 to 3 ft.	\$0.30
18 to 24 ins.	.30
12 to 18 ins.	.20
No. 1 rooted layers	.08

Large-flowered, specially selected type.  
CHAMPION NURSERIES  
Perry, O.

**VIBURNUM CARLESI**  
This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum Carlesii seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time.

Strong 2-yr. seedlings, 8 to 12 ins. or better, \$30.00 per 100, \$250.00 per 1000.  
C. HOOGENDOORN  
Turner Rd. Newport, R. I.

NURSERY STOCK	
	Each
100 Pfitzer Juniper, 36-in. spread	\$2.50
100 Pfitzer Juniper, 30 to 36-in. spread	2.00
400 Pfitzer Juniper, 24 to 30-in. spread	1.50
100 English Juniper, 5 to 6 ft.	1.50
100 English Juniper, 4 to 5 ft.	1.35
100 Chinese Elm, 8 to 10 ft.	1.25
100 Chinese Elm, 6 to 8 ft.	1.00

ROY SCHMAUS NURSERY Benton, Ky.

ORIENTAL MAGNOLIA	
For Fall Delivery	
	Per 100
Magnolia Soulangeana, 2 1/2-in. pots	\$30.00
Magnolia Soulangeana Nigra, 2 1/2-in. pots	25.00

These plants were potted in June and are well-established, with good root systems.  
WELCH BROS. NURSERY, INC.  
Wilmer, Ala.

PRIVET, CHINESE EVERGREEN	
	Per 100 Per 1000
Ligustrum sinense, 2-yr.	8.00 75.00
Ligustrum sinense, 3-yr.	12.00 110.00
2 to 3 ft., br.	12.00 110.00

WAYNESBORO NURSERIES  
Waynesboro, Va.

SHRUBS AND TREES	
About 20,000 California Privet, 4 to 5 ft. 4 shoots, minimum, 15c each; \$140.00 per 1000.	
Over 1000 Plane Tree whips, 4 to 5 ft., 2 yrs., \$1.00 each.	

LEMMEN'S FARM AND NURSERY  
East Moriches, L. I., N. Y.

PRUNUS MARITIMA	
(Beach Plum)	
	100 1000
Strong 1-yr., seedlings, 6 to 12 ins.	\$10.00 \$ 75.00
2-yr., S, 12 to 18 ins.	17.50 150.00
2-yr., T, 18 to 24 ins.	30.00 250.00

C. HOOGENDOORN  
Turner Rd. Newport, R. I.

AMUR RIVER PRIVET—North, fine disease-free, 2 to 3 ft., branched, \$4.00 per 100, \$30.00 per 1000. 3 to 4 ft., \$5.00 per 100, \$40.00 per 1000.	
MRS. R. L. ROBINSON	
Greenville, Ga.	

If you don't find it listed here Try a Want ad in the next issue of the American Nurseryman.

## FOR THREE DOLLARS

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

## AT ONLY 30c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by October 16.

## AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

## VEGETABLE PLANTS

## VEGETABLE PLANTS

Vegetable plant headquarters for the nation offers you outdoor-grown, fresh, large plants. Satisfaction guaranteed. Carefully packed. State-inspected. Leading varieties—true to name.

CABBAGE PLANTS—1000 for \$1.75, 2000 for \$3.00 and 6000 for \$8.40.

ONION PLANTS—1000 for \$1.50, 2000 for \$2.50 and 6000 for \$4.50.

Delivery now until next June. Shipped by express, F.O.B. Omaha, Tex. Cash with orders, please. Write.

W. G. FARRIER PLANT CO.

Box 555 Omaha, Tex.

Surplus Stock  
can be easily and quickly turned into Cash  
by listing it in the  
American Nurseryman Classified Ads.

## VINES

## HONEYSUCKLE

*Lonicera halliana japonica*  
Heavy 2, 3 and 4 yrs., No. 1 field plants, 2 to 4 leads, 18 to 24 ins., carefully graded. \$4.00 per 100, \$30.00 per 1000.  
*Lonicera sempervirens*, Scarlet-red.  
Heavy 18 to 24 ins., \$10.00 per 100, \$80.00 per 1000. No orders too large; immediate shipment.

WOODLAWN NURSERY  
Greenville, Ga.

HALL'S HONEYSUCKLE — Hardy, top-quality, strong, heavy, 3 to 4 yrs., 2 ft. or more full plant, \$4.00 per 100, \$30.00 per 1000.  
RED HONEYSUCKLE (*Sempervirens*), extra good, 18 to 24 ins., \$12.00 per 100, \$90.00 per 1000.

MRS. R. L. ROBINSON  
Greenville, Ga.

## HONEYSUCKLES

Honeyuckles in Quality Lots.

Hall's Japanese, Fragrantissima and Tatarian.

Write for prices.

ARNOLD CLARK NURSERY

Rt. 2, Phone: 0722 McMinnville, Tenn.

## MISCELLANEOUS

## QUALITY LINERS, FALL DELIVERY

Albertina Spruce, 2 1/2-in. pots	Each
4 to 6 ins.	\$0.25
Azalea Mollis Flame, S.T.	.09
6 to 8 ins.	.25
8 to 10 ins.	.35
Andromeda Pteris, 2 1/2-in. pots	
4 to 6 ins.	.16
Andromeda Pteris, 2 1/2-in. pots	
6 to 8 ins.	.20
Clematis Montana Rubens, 2 1/2-in. pots	.25
Cypress Elwoodi, 4 to 6 ins., X	.15
Daphne Cneorum, R.C.	.12
Daphne Cneorum, X, Br.	.18
Daphne Mezereum, S.	.07
4 to 6 ins.	.12
6 to 8 ins.	.15
8 to 10 ins.	.20
10 to 12 ins.	.25
12 to 14 ins.	.30
Heather Carnes, X	.15
Heather Mediterranean Hybrid, X	.12
Heather Vivelli, X	.15
Juniper, Golden Pfitzer, R.C.	.18
Juniperus Meyer, 6 to 8 ins.	.35
Juniperus Tamariscifolia, 4 to 6 ins., X	.15
Juniperus Tamariscifolia, 6 to 8 ins., X	.18
Norway Spruce, 10 to 12 ins., S.T.	.12
Raphiolepis Ovata, 2-yr., T	.17
Rhododendron Ponticum, 4 to 6 ins., X	.20
Rhododendron Ponticum, 6 to 8 ins., X	.25
Thuja Berckmans' Aurea, 4 to 6 ins., X	.15
Thuja Woodwardi Globe, 4 to 6 ins., X	.14
6 to 8 ins., X	.25
8 to 10 ins., X	.35
Viburnum David, 2 1/2-in. pots	.50

Cash with order, please.

FOUR STAR NURSERY

Rt. 3, Box 3529 Edmonds, Wash.

## SURPLUS LIST, FALL, 1953

Well-established in Pots.	
	Each
600 Juniperus Hetzi, 6 to 8 ins.	\$0.15
260 Juniperus Hetzi, 8 to 10 ins.	.17
180 Juniperus Hetzi, 3-in. pot, 6 to 8 ins.	.21
200 Juniperus Hetzi, 3-in. pot, 8 to 10 ins.	.24
200 Juniperus Hetzi, 3-in. pot, 10 to 12 ins.	.26
600 Juniperus Pfitzeriana, 6 to 8 ins.	.15
100 Magnolia Grandiflora, 4-in. pot.	.55
12 to 15 ins.	.55
250 Magnolia Grandiflora, 4-in. pot.	.65
15 to 18 ins.	.65
75 Magnolia Grandiflora, quart can.	.85
18 to 24 ins.	.85
25 Magnolia Nigra, 3 to 3 1/2 ft.	3.00
600 Pin Oaks, bare-root, 6 to 8 ins.	.84
250 Buxus Sempervirens, heavy,	
12 to 15 ins.	1.50
50 Silver Maples, 10 to 12 ins.	2.45
50 Silver Maples, 12 to 15 ins.	3.25

Also salable plants in Arborvitae, Irish and Ashford Juniper. Quoted on request.

THE LEICHHARDT HILL NURSERY  
Nashville Rd. Bowling Green, Ky.



## POTTED GRAFTS

Per 100 Per 1000

Cornus Florida Alba Plena, 12 to 18 ins.	\$65.00	
Cornus Florida Rubra, 12 to 18 ins.	65.00	
1-yr. Seedlings		
Acer Palmatum, 6 to 8 ins.	4.00	\$ 35.00
Cornus Florida, grafting grade	6.00	60.00
Cornus Florida, 6 to 15 ins.	4.00	35.00
Cornus Kousa, 6 to 12 ins.	5.00	50.00
Chinese Chestnut Trees, 18 to 12 ins.	20.00	
Syringa Vulgaris, 6 to 12 ins.	3.00	25.00
2-yr. Seedlings		
Berberis Atropurpurea, 4 to 6 ins.	5.00	40.00
Ilex Crenata, 4 to 6 ins.	6.00	50.00
3-yr. Seedlings		
Thuja Orientalis, 8 to 12 ins.	3.50	30.00
Thuja Plicata, 8 to 12 ins.	4.00	35.00
Tsuga Canadensis, 5 to 4 ins.	6.00	50.00
Tsuga Caroliniana, 5 to 4 ins.	6.00	50.00
Rooted Cuttings Transplanted—X		
Arborvitae, Globe, 6 to 8 ins.	10.00	90.00
Arborvitae, Nigra, 4 to 6 ins.	10.00	90.00
Azalea Hinoedgiri, 4 to 6 ins.	15.00	
Euonymus Patens, 8 to 10 ins.	10.00	
Ilex Bullata, 4 to 6 ins.	10.00	85.00
Ilex Crenata, 6 to 8 ins.	10.00	90.00
Ilex Rotundifolia, 6 to 8 ins.	12.00	100.00
Juniper, Andorra, 6 to 8 ins.	12.00	100.00
Juniper, Hetz, 6 to 8 ins.	12.00	100.00
Juniper, Irish, 8 to 14 ins.	20.00	
Pieris Japonica, 4 to 6 ins.	15.00	
Retinospora Plumosa Aurea, 6 to 8 ins.	10.00	90.00
Taxus Brevifolia, 6 to 8 ins.	15.00	
Taxus Cuspidata, 6 to 8 ins.	15.00	
Taxus Hickii, 4 to 6 ins.	10.00	90.00
Taxus Repandens, 6 to 8 ins.	15.00	
3-yr. Transplants		
Picea Excelsa, 6 to 8 ins.	6.00	50.00
Picea Pungens Glauca, 4 to 6 ins.	7.00	60.00
Picea, White Spruce, 6 to 8 ins.	6.00	50.00
Pinus Strobus, 4 to 6 ins.	5.00	40.00
Pinus Sylvestris, 4 to 6 ins.	5.00	
Thuja Occidentalis, 4 to 6 ins.	6.00	
4-yr. Transplants		
Picea Excelsa, 10 to 15 ins.	15.00	140.00
Tsuga Canadensis, 6 to 8 ins.	10.00	95.00
8 to 10 ins.	15.00	140.00
10 to 12 ins.	20.00	190.00

## VAN DINE NURSERY

Berdan Avenue  
Preakness, Paterson, N. J.

## LINING-OUT STOCK

All heavy, pot-grown. Fall and spring delivery.

	Per 100	Per 1000
Deutzia Gracilis, 2-in. pot.	\$15.00	\$125.00
Ribes Alpinum, 2-in. pot.	20.00	185.00
Juniperus Depressa Plumosa, 2 1/2-in. pot.	20.00	185.00
Juniperus Glauca Hetzi, 2 1/2-in. pot.	20.00	185.00
Taxus Cuspidata, 2 1/2-in. pot.	25.00	225.00
Taxus Hickii, 2 1/2-in. pot.	27.50	250.00
Taxus Hatfieldi, 2 1/2-in. pot.	27.50	250.00
Thuja Pyramidalis, 2 1/2-in. pot.	22.50	200.00
Thuja Elegantiissima, 2 1/2-in. pot.	22.50	
Thuja Woodii, 2 1/2-in. pot.	22.50	200.00
Thuja Wareana, 2 1/2-in. pot.	22.50	
Ilex Convexa, 2-in. pot.	15.00	
Ilex Rotundifolia, 2-in. pot.	15.00	

Listed items subject to prior sale. No charge for packing when cash accompanies order.

THE HOLLANDIA GARDENS  
So. Vienna, O.

## LINING-OUT STOCK

Quality-grown lining-out stock. Priced per 100.

	6 to 8 to 12 ins.	15 to 20 ins.
Buxus Harlandi	\$12.50	\$17.50
Buxus Japonica	12.50	17.50
Camellia Sasanqua, in variety	12.50	15.00

Felicola Sellowiana (Pineapple Guava) 12.50 15.00

Gardenia Fortunei 10.00

Gardenia Mystery 10.00

Gardenia Radicans 7.50 10.00

Ilex Cornuta Burfordi 17.50 20.00

Ilex Crenata Bonveia 15.00 17.50

Ilex Crenata Rotundifolia 15.00 17.50

Ilex Glabra 10.00 12.50

Laurel, Cherry, seedlings 10.00

Laurel, Cherry, seedlings 7.50

Magnolia Grandiflora 10.00 12.50

Write for our new price list, just out. Also list of container-grown stock.

Wholesale Only  
BLACKWELL NURSERIES, INC.

Semmes, Ala.

## QUALITY STOCK

Chinese Arborvitae, sheared one time, 3 to 4 ins.	\$1.00
Compact Green Globe Arborvitae, 24 to 30 ins.	1.00
Chinese Elm, 1-in. cal., 8 to 10 ins.	1.00
Euonymus Radicans, 12 to 18 ins.	1.00
Juniperus Virginiana, sheared dense, 30 to 36 ins.	1.00
Purpurea Honey-suckle, sheared globe, B&B, 18 to 24 ins.	1.00

## LUKE NURSERY

Truckloads at nursery.  
Phone 116 Pauls Valley, Okla.

## NURSERY STOCK

Per 10 Per 100

Mugho Pine, 6-yr., 12 to 18 ins.	\$17.50	\$150.00
Azalea Mollis, seedlings		
1-yr., 2 to 4 ins.	10.00	
Heather, Med., 1-yr., T.	10.00	
Heather, Med., rooted	4.00	
Springwood, white	4.00	
Erica Carnea, red	4.00	

## PORTLAND AVENUE NURSERY

1409 E. 59th &amp; Portland Ave., Tacoma, Wash.

## BAMBOO

Beautiful dwarf Bambusa falcata, mature, 12 feet. No finer bamboo.  
Excellent evergreens. Compact hedges. Fencing and screening. Disease-free. Strong healthy plants. 18 to 24 inches—\$10.00 per 100.McKEE'S NURSERY, Growing Dept.  
P. O. Box 749 Covington, La.

## SUPPLIES and SERVICES

## BURLAP

## NURSERY BURLAP

Burlap squares and sheets for bailing purposes, made from selected used burlap and bags free of oil, smell or chemical stock. All vacuum machine cleaned and holes sealed up. We also have a supply of open mesh onion bags in sheet form, measuring 33x36 ins. Samples and prices cheerfully submitted on request.

STERLING BAG & BURLAP CO.  
41 Carolina St. Buffalo 1, N. Y.Don't Be Late!  
Mail advertising copy to reach  
the American Nurseryman  
Monday, two weeks before date of issue.

## CHRISTMAS TREES

CHRISTMAS TREE BUYERS, ATTENTION  
Not just Canadian but Nova Scotia top-quality Balsam Fir trees that really sell. Carload orders only. Your choice of size assortments. Write or phone immediately for prices and further information. See our display ad in this issue.HOFFER CHRISTMAS TREES  
209 Colfax Rd. Havertown, Pa.  
Phone: Hilltop 6-0748

## CUT CHRISTMAS TREES

Spruce and Balsam, 5 to 8 ins., \$10.00 per 10; \$95.00 per 100. Tips in bales, Colorado Spruce, Balsam Fir and White Pine, \$6.00 per 100 lbs. Norway and White Spruce, Scotch and Red Pine, \$4.00 per 100 lbs.

## PEQUOT NURSERIES

Brainerd, Minn.

## CANADIAN CHRISTMAS TREES

We offer 100,000 trees, all heights available. Prices submitted on request.

## MODEREGGER

4630 Dupuis Ave. Montreal, Que., Canada

## DECORATIVES

## CHOLLA CACTUS WOOD

Best grade, cleaned, 5 to 3 ins. in diameter, 30c per ft. F.O.B. Sample order, \$1.00 postpaid. Also lightweight driftwood and manzanita.

NATURAL DESERT DISPLAYS  
436 W. Pinkley Ave. Coolidge, Ariz.Small Ads Do Great Things in the  
American Nurseryman Classified Section.

## FLATS

## MINNESOTA WHITE CEDAR FLATS

	Per 100
No. 1, 14x20x2 1/2	\$24.00
No. 2, 14x20x3	27.75
No. 3, 12x14x2 1/2	18.50
No. 4, 12x16x3 1/2	21.75
No. 5, 14x16x2 1/2	20.75
No. 6, 14x16x3 1/2	24.50
No. 7, 15x22 1/2x2 1/2	27.25
No. 8, 15x22 1/2x3 1/2	31.50
No. 9, 11 1/2x22 1/2x2 1/2	23.00
No. 10, 11 1/2x22 1/2x3 1/2	26.00
No. 11, 13 1/2x16 x 5/8	30.00
No. 12, 8x5 1/2x1 1/2	16.00
No. 13, 8x5 1/2x1 1/2	18.50

All other sizes quoted on request.  
5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are 1/2 in. and ends are 3/4 in. thick. All material surfaced on one side. All shipments by truck unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus 1/2 cent per end piece for the first 1000 ends, 1/4 cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

H. C. HILL &amp; SONS, Cook, Minn.

## WANTED

CHRISTMAS TREES WANTED  
Sheared Scotch, Red Pine, 5 1/4 to 9 ft., Blue, Norway Spruce, 4 to 10 ft., cut or B&B, or will buy plantation. Write full information as to price and grade.JOSEPH A. SAMPLINER  
7982 Lorain Ave. Cleveland 2, O.  
Phone: Melrose 1-3144 (Days)CHRISTMAS TREES WANTED  
800 Balsam and Spruce No. 1 Christmas trees. No off-balance trees considered. Quote best price.WASHINGTON GARDENS  
Rt. 1, Box 249 West Alexandria, O.

## WANTED

2-lb. Glauca (Sweetbay) Magnolia Seed.  
LINWORTH NURSERY  
Rt. 1, Columbus 14, O.FLATS  
Made from a good grade of Southern Yellow Pine dipped in Rot Not wood preserver for longer life.  
Standard specifications, inside measurements.  
16 x12x2 1/2 ..... \$20.38 per 100  
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20 x14x2 1/2 ..... 26.61 per 100  
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All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

HIGHTOWER BOX & TANK CO.  
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Birmingham 1, Ala.REDWOOD FLATS, K. D.  
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.1x1-in. Cypress stakes, pointed.  
50 pcs. to bundle, 4 ft., \$3.50 per bdl.  
50 pcs. to bundle, 5 ft., \$4.50 per bdl.  
50 pcs. to bundle, 6 ft., \$5.50 per bdl.  
Ship same day Cash with order, please.  
YOH & HOOKER, Youngstown 2, Ohio

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MARSH HAY FOR MULCHING  
Clean; no weeds. Truckloads or carloads.  
KOPFF HAY CO.  
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DAHLIA OR TREE LABELS  
Priced per 1000  
Plain Painted  
3 1/2 x 1/2 ins., notched (not wired) ..... \$2.50 \$3.00  
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4x4 ins. (cartons 1000 each) ..... \$3.30 \$3.95  
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8x8 ins. (cartons 500 each) ..... \$3.00 \$3.60  
10x10 ins. (cartons 500 each) ..... 3.50 4.25GARDEN STAKES  
Price per carton8x4 ins. (cartons 1000 each) ..... \$2.50 \$3.00  
10x 1/2 ins. (cartons 1000 each) ..... 2.75 3.25  
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Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."  
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Youngstown 2, O.

## ORCHID SUPPLIES

OSMUNDA: Fresh-cut "live" fiber at all times.  
Professional bag, \$2.50; Bushel, \$5.00  
Standard Bale, \$12.00PLASTIC LABELS—Copper or nickel-bearing wire.  
Pot, 1/2 by 3/4 ins. .... \$1.50 \$4.95 \$ 9.50  
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Orchid Spec., 1/2 by 3/4 ins., red, blue, green, yellow and white ..... 2.10 8.95 16.00

Wired, 1/2 by 2 ins., white ..... 1.95 7.95 15.00  
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1/2 by 3/4 ins., blue, green, red and yellow ..... 2.25 9.45 18.00White Strap Label,  
1/2 by 3/4 ins. .... 2.10 8.95 16.00—Special—  
NEW PRICE—ORIGINAL BUBBLE VASE

LAPEL PINS, \$1.25 doz. 2, 3, 6-in. Orchid tubes with rubber caps, 60c per doz., \$4.10 per 100.

WRIGHTWOOD FLORAL CO., INC.

2407 N. Main St. Houston 3, Tex.

Prices F.O.B. Houston. Subject to change without notice.

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NATURAL MADAGASCAN RAFFIA  
First-quality Majunga and Eastcoast types.  
Prices and samples on request.

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**SOIL-TESTING SERVICE****SOIL TESTING**

Soil-testing and consultation services to help you grow better crops. Rapid, accurate tests for pH, organic matter, nitrogen, phosphorus, potassium, calcium and four minor elements cost only \$5.00 per sample, or write for costs on a soil-testing consultation program.

**DR. WOLF'S**

AGRICULTURAL LABORATORIES  
Rt. 4, Fairton Rd. Bridgeton, N. J.

**STAKES****CYPRESS PLANT STAKES**

50 Pieces to Bundle  
1x1-in.—3 ft., pointed.....\$2.50 per bundle  
1x1-in.—4 ft., pointed..... 3.50 per bundle  
1x1-in.—5 ft., pointed..... 4.50 per bundle  
1x1-in.—6 ft., pointed..... 5.50 per bundle  
1x1-in.—7 ft., pointed..... 7.00 per bundle  
These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

**WE SHIP SAME DAY!**

YOHO & HOOKER  
Youngstown, Ohio

**HEAVY BAMBOO STAKES.****EXCEPTIONALLY FINE QUALITY.**

Per bale of 100	% to 1-in.	% to 1-in.
4 ft. ....	\$4.20	\$ 5.15
5 ft. ....	5.20	6.40
6 ft. ....	6.25	7.70
7 ft. ....	7.30	8.95
8 ft. ....	8.35	10.25

F.O.B. Centertown, Ky.

Add 10 per cent for green dyed.

Write for discount on large quantities.

A. C. PATTERSON, Centertown, Ky.

STAKES, GALVANIZED HARD STEEL.  
STAKE FASTENERS and COTTON TWINE.

Prices and samples sent upon request.

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**SPHAGNUM MOSS**

WISCONSIN'S BEST SPHAGNUM MOSS  
Burlaped or wired bales of standard size.  
Your year-around source of supply. Freight express, or delivered by our trucks. Please price us.

WARRENS MOSS CO.  
Phone: Tomah 731R13 Warrens, Wis.

**SUPERIOR QUALITY SPHAGNUM**

Write or wire for prices of wire-bound or burlaped bales in carlots or less.

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610 Lincoln St. Wisconsin Rapids, Wis.

**MISCELLANEOUS****BIRD FEEDERS**

Wild bird feeding stations and houses are now big business. If located in a suburban or rural area, you can share big profits, generous discounts, fast turnover and many repeat sales.

Write on your letterhead for catalog HN.  
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FOR AMERICAN GARDENS,  
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AMERICAN NURSERYMAN  
343 South Dearborn Chicago 4, Ill.

**WANTED and FOR SALE ADS**

Help and Situation Wanted and For Sale Advertisements

Display: **\$3.50** per inch, each insertion.

Liners: **30c** line; minimum order **\$3.00**.

**FOR SALE**

Well-established nursery. 2½ acres stocked with 20,000 evergreens, irrigation system, 2 greenhouses, salesyard and garden shop. Located on main thoroughfare of city, a state route. Plenty of parking space. We have over 15,000 customers. Serving Peorians for 51 years. Established landscaping, pest control and complete tree services. Duplex home leased and new, beautiful log cabin type ranch home. Owner retiring. Will sell all or part. Also, well-established Christmas tree and greens business. Contact: BRANDT'S GARDENS AND NURSERY, 1215 North St., Peoria, Ill.

**FOR SALE**

Opportunity to acquire 12-acre landscape nursery established 20 years in the Fox River valley, 40 miles west of Chicago. Large stock of hardy trees, shrubs and evergreens. Complete equipment to operate. Three-bedroom modern house and land can be bought or rented on long-term lease. Address Box 999, care of American Nurseryman.

**HELP WANTED****NURSERY FOREMAN**

To work as assistant to manager of 100-acre nursery specializing in ornamental shrubs. Location northeast Ohio. \$360.00 per month guaranteed to start. Annual paid vacation. Every opportunity to advance. Must be thoroughly trained and able to handle men. Full particulars in first letter, please. Address Box 993, care of American Nurseryman.

**FOR SALE****TREE MOVERS**

We have several used tree movers in 6 and 7-ft. ball capacity. These movers are used but in perfect condition.

WILLIAMS & HARVEY NURSERIES  
CO.

Box 8825, Kansas City, Mo.  
Phone: Gilmore 9090

**FOR SALE**

Thriving nursery business, 38 miles north of New York city in Orange county. 12 acres of suitable-size stock, all varieties. Stone residence with nine rooms and bath, heated; also office and small attached greenhouse. Five-car garage with five-room apartment above. For further details, write:

SANFORD DURLAND  
Chester, N. Y.

**FOR SALE**

Landscape nursery, in Baltimore-Washington area. Complete equipment, new trucks, tractors, etc. 14 acres deep topsoil. Specimen material, land and all equipment for \$25,000. Address Box 998, care of American Nurseryman.

**FOR SALE****BOILER**

250-h.p. SWP 200, type CP. Keeler water tube boiler with style E combustion engineering stoker. 2 years old.

THE TAYLOR CHAIR CO.  
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**HELP WANTED****Experienced Landscape Salesman**

Excellent opportunity for a capable, aggressive, confident young man to work for a well-established company in southwestern part of Nassau county on Long Island, N. Y.

Ability to produce freehand drawings an asset; ability to visualize a must.

Please give full qualifications in first letter, including recent photograph and salary expected. Address Box 997, care of American Nurseryman.

**HELP WANTED**

Young man to operate nursery. Opportunity to earn \$10,000 per year within the next five or six years. Should have at least two years of college and two years of practical experience in a general nursery. Should be able to work with hands and have some mechanical ability. Must be a capable salesman. Must have executive ability and be able to handle labor. Will be paid on percent-of-sales basis. Drawing account to start, \$225.00 per month. References will be required.

**BEDFORD NURSERIES**

1023 Oleander Dr.  
Augusta, Ga.

**HELP WANTED****EXPERIENCED PROPAGATOR**

Man capable of taking complete charge of greenhouses totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

**HELP WANTED**

Wonderful opportunity for man, age 35 to 50, who knows the nursery business and can sell, draw his own plans, do landscaping and work with a crew. Would like someone who is not afraid of work. We have plenty of business and are located in southern Arizona. Warm winters, healthy conditions, salary and percentage. Would consider partnership with idea of selling business to you at a later date. Will teach you our way if necessary. Application confidential. Give full particulars in first letter. Address Box 10, care of American Nurseryman.

**HELP WANTED**

Landscape foreman. Experienced in handling men in landscape construction, big-tree planting, grading, stone work and general use of landscape equipment.

SAN-RAE GARDENS, INC.  
5536 S. Dixie Hwy. Dayton 9, O.

FOR SALE—Profitable wholesale nursery brokerage business. Operating 6 years. Net yearly profit over \$6,000. Act now to take advantage of approaching spring season. Full price, \$5,000 cash. Write owner. Box 428, San Fernando, Calif.

SITUATION WANTED—Experienced nurseryman desires permanent position with opportunity for advancement. Age 33, married, references. All phases of nursery operation and sales. Address replies to Box 11, care of American Nurseryman.

## PIONEER NURSERIES

Research done by Peter J. Cascio, immediate past president of the American Association of Nurserymen, for his address at the New York convention in July, but not incorporated in the address, has revealed the names of many nurseries across the land which have celebrated their 100th anniversaries and have played a significant role in the development of the agriculture and landscaping of the nation.

Among the country's pioneer nurseries, still extant, are Hicks Nurseries, Inc., Westbury, N. Y., a pioneer in large tree moving; C. W. Adams Nursery, Inc., Westfield, Mass.; the Meadowbrook Nurseries, Inc., Englewood, N. J., which celebrated its 100th anniversary in 1945, and Thomas B. Meehan Co., Inc., Dresher, Pa., whose present owner is Bert Meehan—a firm which was active in A. A. N. affairs in the 1880's and 1890's.

Early nurseries of the south were Hillenmeyer Nurseries, Lexington, Ky., founded in 1840, and now the largest growing and landscaping firm in the state.

The pioneer nursery of the middle west was Stark Bros. Nurseries & Orchards Co., Louisiana, Mo., founded in 1816 and now including some members of the fifth generation helping in its widespread operations.

Other pioneer nursery firms include Bryant's Nurseries, Princeton, Ill., started in 1845 by Arthur Cullen Bryant, the poet, who was Miles Bryant's great-uncle. The Greening Nursery, now operated by the fourth generation of the founding family, celebrated its 100th anniversary in 1950, and Willis Nursery Co., Ottawa, Kan., was 100 years old in 1948.

At the outset, the nursery industry in this country was devoted basically to the production of fruit trees, but ornamental plants were soon added, for even in colonial days the people wanted beauty around their homes. The industry, from its early start in and around New York, naturally spread up the Hudson valley as the commercial fruit industry developed. Rochester early became a large nursery center, and western New York is still an important nursery producing area.

Later, the industry spread to Lake county, Ohio, where suitable soils and climate were found. Lake county, just east of Cleveland, is still a heavy producing area for all kinds of nursery stock.

Gradually the industry traveled

## PREMIER PEAT MOSS

The All-Organic Soil Conditioner

does

**MORE**  
for  
all soils!

**MORE**  
in gardening-  
mulching, etc.

## Premier improves YOUR SOIL AND YOUR BUSINESS

It's good business to use Premier—because Premier gives you better results with *all* soils, and better profits from faster-growing, faster-selling stock.

Premier is the *natural, organic* soil conditioner that supplies moisture and plant food as needed . . . assures better aggregation, germination, aeration.

Premier will give you better results—in propagating, potting and bench soils, transplanting, liner beds, mulching and general soil improvement. And it will give you *better resale profits* because it pleases home gardeners and brings them back for more!

Send today for prices on Canadian and European Premier Peat Moss—in sizes for every need, from 1-pot bags to big bales.

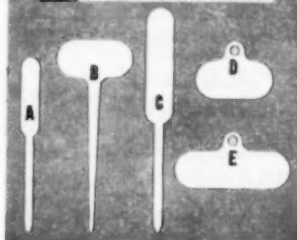


BIG VALUE  
BALES

BAGS AND  
CARTONS

Premier Peat Moss Corp., 535 Fifth Ave., New York 17, N. Y.

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- A 4½" Vertical Pot or Border Stake.
- B 2" x 5" Horizontal Pot or Border Stake.
- C 6" Vertical Pot or Border Stake.
- D 2" Horizontal Tie on Tag.
- E 3" Horizontal Tie on Tag.

## GRO-QUICK

## LIFETIME PLANT AND SHRUB MARKERS

Preferred by professional and amateur growers of indoor and outdoor plants and shrubs. Made of durable, heavy gauge, molded white plastic. Guaranteed to withstand all kinds of weather. Write on them with ordinary pencil. Will not come off. Yet can be cleaned and re-used (a little scouring powder on a damp cloth).

Write today for free samples

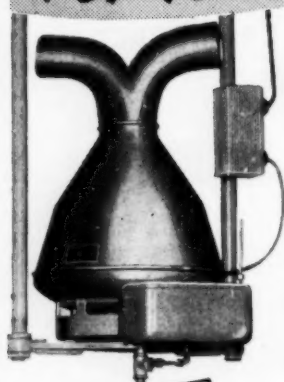
Gro-Quick also manufactures Weed-Wand, Lifetime Plant-Ties, Seed-Soer and Electric Soil Heating Cable.

## GRO-QUICK SALES

Dept. 7A 10342 Lanark, Detroit 24, Mich.



## For Your Greenhouse...



### This STANDARD AUTOMATIC Humidifier

only **\$235.00** complete

It's a complete, all-in-one-package unit, for simplest possible installation. Just bolt in position, make one water-line connection, and plug in to electrical outlet. Then unit automatically provides continuous, day and night humidification at low operating cost and with no work or attention on your part.

SEND NOW FOR  
DATA BULLETINS  
State size of  
your greenhouse.

### STANDARD ENGINEERING WORKS

PAWTUCKET, R. I.

**Large Stocks . . .**  
**Prompt Shipments . . .**  
Hand Split Chestnut Rails.  
Peeled Chestnut, White Cedar  
or Locust Posts  
.....

**RUSTIC TABLES** Write  
6 and 8 ft. long, frame work— for  
Northern White Cedar. Tops Catalog  
and seats—Western Fir.

### English Type RAIL and HURDLE FENCE

**PROFITS For Nurserymen!**  
**YOU SELL FENCE**  
**We Carry Inventory**  
**ALL TYPES**—From large Estates to  
Small Homesites.  
**FOR LONG LIFE**—Entire Fence—  
(both posts and rails) treated with  
nationally known—  
**PENTA PRESERVATIVE**

**WOOD PRODUCTS CO. TOLEDO 12, OHIO**

### SEQUESTRENE OF IRON

now available for treating

### CHLOROSIS

\$25.00 for 10-lb. drum.

\$2.25 per lb. in 50-lb. drums.

\$2.00 per lb. in 100-lb. drums.

Shipped prepaid, cash with order.

**J. S. WELLS**

Box 45, DEERFIELD, N. J.

DARLING'S

### "Rite in the Rain"

**WATERPROOF  
TREE AND PLANT LABELS**

"Rite in the Rain" waterproof tree and plant labels have been tested by nurserymen and proved superior—easy to read—easy to use—longlasting. Ordinary pencil will not wash off and the labels will not damage plants and trees. Send for samples and prices.

**J. L. DARLING COMPANY**  
BROWN'S POINT, TACOMA, WASH.  
Trade mark registered U. S. Pat. Office

southward and westward with the expansion of the country and the growth of the population, eventually reaching the west coast so that today almost every area has sufficient nurseries to serve the population resident therein.

### OIL CHANGES SAVE WEAR

Frequent oil changes during cold weather increase engine life and save oil, according to S. G. Huber, extension specialist at Ohio State University, Columbus.

"Oil is cheap in comparison to repairs and time lost during breakdowns," he commented. Oil costs per hour amount to about 2½ cents if it is changed every 60 hours. Cost would go up a penny if the same operator changed oil every 40 hours. This is a small fraction of total operating costs—about 90 or more cents an hour.

When oil is changed more frequently in cold weather, it reduces engine wear. Reduced wear probably means less total oil consumption during the life of the machine.

In cold weather, more carbon, partially burned fuel, dirt and water will accumulate in crankcases. Heavy-duty oil, if not used too long, will take such materials into suspension.

In addition to changing oil more frequently, engine operators should also change filters more frequently in cold weather. Warming up an engine in cold weather will reduce dilution of oil by fuel.

### STRAWBERRY ROOT WEEVIL

The control of strawberry root weevils is described in a circular issued by the extension service of the institute of agricultural sciences, State College of Washington. The strawberry root weevils are among the most common and serious pests which attack strawberries on the west coast. When numerous, these insects can destroy a strawberry planting in one season.

The circular describes the three kinds of weevils that attack strawberries. They are commonly known as the strawberry root weevil, the rough strawberry root weevil and the black vine weevil. The adult and larval forms of these are similar in appearance except for size. All have snouts or beaks and none can fly.

The circular recommends purchase or preparation of poison bait for controlling these pests. Homemade baits can use either fruit and bran or bran alone as the main constituent. An insecticide such as sodium

# can ONE plus ONE equal EIGHT?



Illustrated is a "CJr" at a York, Maine greenhouse. Royers are available in capacities to 30 cu. yds. per Hr.—electric motor, gasoline engine or belt-to-tractor driven.

They can if one is a Royer Compost Mixer. One man-hour spent with a Royer will produce as much compost as eight man-hours of manual preparation. Think of the valuable time thus made available for more profitable productive activities.

The operation of the Royer is simple. One or two men shovel the desired materials into the low hopper and the combing belt action shreds and mixes them into a uniformly sized product, free of all trash. Compost prepared in this manner absorbs and retains moisture, ferments better in the pile, spreads quickly and evenly and readily yields its growth stimulating elements.

Hundreds of Royers are in use by florists, nurseries, parks and golf courses throughout the United States. Send for Bulletin 46 giving complete details and a partial list of users . . . perhaps several in your immediate vicinity. It will pay you to investigate the possible savings a Royer can make for you.



## ROYER FOUNDRY & MACHINE CO.

162 PRINGLE ST., KINGSTON, PA.

fluosilicate, calcium arsenate or sodium fluoride is mixed in with the bait and several gallons of water are added to moisten the mixture.

The bait is then either sprinkled around the crown of each plant or broadcast among them, in the case of matted rows of plants. From 50 to 100 pounds of bait is considered sufficient for an acre, depending on the number of plants. The best times for these applications and the proper proportions of the mixtures are contained in the circular, No. 169 (Revised), obtainable from the extension service, Pullman, Wash.

### SILVA'S DEVELOPS BERRY

William E. Silva has announced development of a new vine berry at Silva's Nursery's berry-breeding and trial grounds at Sebastapol, Calif. The berry, one of 1,650 seedlings hand-pollinated over a period of seven years, is large and red, a heavy producer with large leaves, is not subject to anthracnose and

## HAND TRUCKS

Especially built for handling B&B nursery material. Are built in three sizes, with capacity up to 1500 lbs.

Illustrated is our small model truck. One man can easily handle 600-lb. ball.



Write for folder giving details and prices.

## THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

## HERE IS WHY NURSERYMEN PREFER MENNEPOTS



### Superior Strength

Sturdily constructed, the MENNEPOT withstands hard handling without fear of breaking apart.

### Stapled Bottom

Comes completely assembled . . . Potting can start immediately upon arrival—regardless of weather.

### Light Weight

The MENNEPOT is easy to handle, economical to use. The extremely light weight makes shipping costs negligible.

### Drainage

The unique side-drainage feature in the MENNEPOT makes waterlogging impossible while standing in the salesyard.

**Size 0** Top . . . 4 ins.  
Bottom . . . 3 1/4 ins.  
High . . . 4 ins.  
Weight per 100  
Regular 10 lbs. Heavy 25  
Regular Weight Price  
100 . . . \$2.75 1000 . . . \$25.00  
Heavy Weight Price  
100 . . . \$3.75 1000 . . . \$35.00

**Size 1** Top . . . 6 ins.  
Bottom . . . 5 ins.  
High . . . 6 ins.  
Weight per 100  
Regular 15 lbs. Heavy 35  
Regular Weight Price  
100 . . . \$4.00 1000 . . . \$37.50  
Heavy Weight Price  
100 . . . \$5.25 1000 . . . \$50.00

**Size 2** Top . . . 7 ins.  
Bottom . . . 5 1/2 ins.  
High . . . 8 ins.  
Weight per 100  
Regular 24 lbs. Heavy 55  
Regular Weight Price  
100 . . . \$4.50 1000 . . . \$42.50  
Heavy Weight Price  
100 . . . \$5.75 1000 . . . \$55.00

**Size 3** Top . . . 8 1/4 ins.  
Bottom . . . 6 1/4 ins.  
High . . . 9 ins.  
Weight per 100  
Regular 30 lbs. Heavy 70  
Regular Weight Price  
100 . . . \$5.00 1000 . . . \$47.50  
Heavy Weight Price  
100 . . . \$6.25 1000 . . . \$60.00

**Size 4** Top . . . 8 1/2 ins.  
Bottom . . . 7 1/4 ins.  
High . . . 5 ins.  
P.A.N.  
Weight per 100  
Regular 30 lbs. Heavy 70  
Regular Weight Price  
100 . . . \$5.00 1000 . . . \$47.50  
Heavy Weight Price  
100 . . . \$6.25 1000 . . . \$60.00

**Size 5** Top . . . 12 ins.  
Bottom . . . 10 ins.  
High . . . 12 ins.  
L.G. POT  
Weight per 100 250 lbs.  
30 . . . 300 ea. 100 . . . \$27.50  
500 . . . \$125. 1000 . . . \$225.  
\*Special for extra-heavy  
trees and large shrubs.

500 of a size takes 1000 rate in sizes 0-1-2-3-4.  
Regular-weight pots packed 100 and 200 per  
carton in sizes 1-2-3-4. Size 0, 250 only. Heavy  
pots are packed 100 per carton only in sizes  
1-2-3-4. Size 0, 250 only. Size 5, 20 only. NO  
BROKEN CARTONS.

SEND \$1.00

FOR COMPLETE SET OF 11 SAMPLES.

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### Distributors

Jackson & Perkins Co., Newark, N. Y.  
Imars Feed & Seed, 12719 Miles Ave., Cleve-  
land, O.

The Bosley Nursery, U. S. Route 20, Mentor,  
O.

### RHODE ISLAND CANADA

American-Dutch Burlap Co., P.O. Box 177,  
Cranston 10, R. I.  
The Sheridan Nurseries, Ltd., Sheridan,  
Ontario, Canada.

## MENNO S. MENNES NURSERIES

NORTH TONAWANDA, N. Y.

Phone LUDlow 4444

has an exceedingly sweet raspberry flavor. It is not as long as the loganberry, but is more like the boysen, having no dry pistels adhering to the ripe berry as the logan has. While the logan has an exceedingly acid flavor, this berry is sweet and palatable, which makes it suitable for the juice and canning industry.

Silva's method of propagating these plants has been by cuttings, with four or five buds to a cutting, and six or eight cuttings put in a flat in January, wet and covered with glass after rooting and sprouting. Cutting the eyes out and planting them in 1-gallon cans is the next step, and, when shoots start, propagators bury the can and retip the new growth, thereby making the plant put in three efforts of growth in one season.

### NEMATODE BULLETIN

Research on garden nematodes has led to the publication by the United States Department of Agriculture of its first farmers' bulletin on the subject. This new publication, called "Controlling Nematodes in the Home Garden," deals with the four principal nematode pests. Half of the bulletin is devoted to control of garden nematodes through different ways of soil fumigation with the two practical fumigants available to most gardeners—those with dichloropropene and those with ethylene dibromide. Both are inflammable and toxic to humans and animals, but are not dangerous when used as directed.

## NOW—Send for your new 1953 illustrated catalog.

Wire and redwood baskets; redwood tubs; wire and fernwood totem poles; plant supports; wrought-iron brackets and fern stands; plastic and lead flower pin frogs; can cutters; green moss in bales and bags; plant ties and twine; plastic pots and trellises; copper, brass and plastic planters; wire plant markers and plastic plates, and other nursery supplies.

## WIRE BASKET COMPANY

921 E. Redondo Blvd. Phone: Orchard 7-9022 Inglewood, Calif.

## METAL LABEL MARKERS

### Immediate Delivery

Steel wire stakes with galvanized or green enamel finish—Aluminum and Galvanized Labels.

Also other Ideal Garden Gadgets.

SEND FOR  
DESCRIPTIVE FOLDERS  
TODAY



LANSING SPECIALTIES MFG. CO.  
LANSING 12 MICH.

### BURLAP NURSERY SQUARES

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## ROSE STREAK

[Continued from page 9]

roses are seen in leaves and canes as they approach maturity. No distinctive effects of streak are seen in young leaves or canes of such plants.

Roses showing general symptoms of streak include the understocks canina, multiflora, odorata and Texas Wax; the species *Rosa nutkana* and *R. wichuraiana*, and the varieties American Pillar, Clio, Duchess of Wellington, Edel, Else Poulsen, Gardenia, Jean Girin, Kaiserin Auguste Viktoria, Kitchener of Khartoum, Miss C. Messman, Newport Fairy, Sarah Van Fleet, Silver Moon and Veilchenblau. Also, Manetti and two unnamed roses of the rugosa type were shown to be generally invaded by the streak virus, but they expressed no symptoms. Roses that are generally invaded by the streak virus are less vigorous than normal plants, but they do not show dieback as a result of infection. They are important in maintaining the streak virus, since they readily take up the virus from infected understocks and as readily transmit it to healthy understocks across a union.

## Lesion Reaction Found in Hybrids

The local lesion reaction to rose streak is known only in certain hybrid tea roses, such as Better Times, Briarcliff, Columbia, Mme. Butterfly, Ophelia, Radiance, Rapture, Talisman and Templar. Such hybrid teas have been used as test plants to confirm the presence of rose streak virus. A month or more after a streak-infected bud is set in the cane of one of these hybrid teas, the stock shows a nearly black area next to the inserted bud. The dark area extends and girdles the plant, killing all parts above the bud. Occasionally, similar dark areas appear in young side shoots arising below the inserted bud, but the streak virus never spreads far in these varieties. The streak virus is limited to the dark areas and cannot be transmitted from such hybrid tea roses. Buds taken from the dark areas die without uniting with a stock, and normal buds next to such areas live but carry no virus. Therefore hybrid teas of this group cannot maintain the streak virus in the nursery.

In nursery practice such hybrid teas become infected when healthy buds are set in streak-infected understocks. The streak virus is erratic in moving from the affected understock into the bud, but such hybrid tea buds always die. If the bud is invaded promptly after uniting, it

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is killed before it starts to grow, and the loss is scored as bud failure. When invasion is slower, the bud may grow a foot or two before it develops purplish-black canker-like lesions. At Painesville, O., hybrid teas were still dying from streak infection in July, 1952, a year after they were budded on multiflora stock. Thus, serious losses occur in hybrid tea roses of this group when budded on streak-affected multiflora. Such losses may be wrongly blamed on fungus diseases, for the streak lesions often look like canker.

### Resistant Roses

Roses found resistant to or possibly immune from streak are the understock Ragged Robin; the species *R. hugonis*; the hybrid rugosa Conrad Ferdinand Meyer; the hybrid perpetual Ulrich Brunner, and the hybrid teas Joanna Hill, Margaret McGredy and Souvenir de Claudius Pernet. All these roses were tested by budding with streak-affected buds. They showed no symptoms and the streak virus could not be recovered from them after months of contact. It is not known, however, how long such tests must be continued to afford proof of full immunity.

It is clear that roses of the same general class vary widely in reaction to streak. Although the only known local lesion reactors are hybrid teas, three hybrid teas showed general invasion—Duchess of Wellington, Edel and Kaiserin Auguste Viktoria—and three were resistant. Among hybrid perpetuals, hybrid rugosas and rose species tested, some were subject to general infection and some were resistant. It is important to note that all the common understock roses except Ragged Robin are subject to general infection. Multiflora and its hybrids, such as the ramblers and floribundas, can be generally infected as far as is known, as can also *Rosa wichuraiana* and its hybrids.

### Transmission of Virus

The streak virus was not found to be sap-transmissible; hence, there is no danger that it will be carried on the knife or on the hands in budding or topping operations. No evidence of seed transmission was found when 123 seedlings of multiflora and 40 seedlings of rose varieties were grown from streak-diseased parents. No insect carrier of the streak virus was found, although Floyd Smith tested 34 species of insects, including most of the sucking insects commonly found on roses in the northeast. Budding and grafting transmit the virus;

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the essential requirement is a tissue union between a generally infected rose and a healthy, susceptible one.

### Transmission of Virus

In the nursery the streak virus is transmitted from infected buds to understocks and from infected understocks to healthy buds. The nursery practice of propagating the tops of field-budded stocks maintains the virus, increases it and introduces it into healthy buds of new varieties. This practice creates the impression that streak is spread by some natural agent; however, we believe that rose streak is dependent on man for maintenance and spread, at least in this country. Reports<sup>2,3</sup> have pointed out before that this nursery practice is a means of maintaining virus diseases of roses, particularly the mosaic diseases in roses propagated on *R. manetti* for greenhouse use. We realized that streak could be maintained in this way in garden roses

<sup>2</sup>Brierley, Philip, and Floyd F. Smith, "Spread of Rose Virus Diseases." American Nurseryman. July 1, 1940.

<sup>3</sup>Brierley, Philip, "Rose Mosaic Is Still with Us." Florists' Exchange 109 (12): 15. 1947; Southern Florist and Nurseryman 60 (27):12, 5758. 1947; The Florists' Review 101 (2610); 55, 1947. (Title varies.)

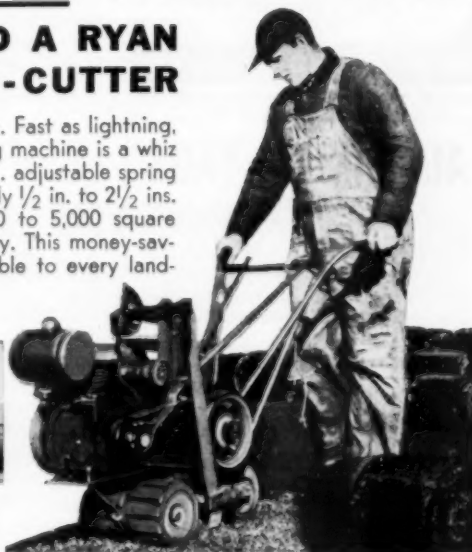
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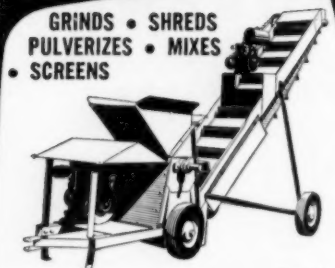
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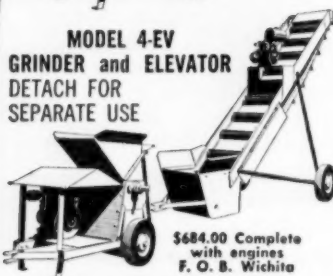
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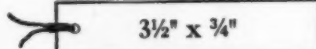
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propagated on multiflora, but we did not see this actually taking place in commercial nurseries until 1952.

### Spreading Infection

A top variety generally invaded by streak virus can supply many buds that can contaminate many understock plants. Similarly, a streak-affected multiflora can supply many cuttings that can infect many plants of top varieties budded on them. Thus, streak is able to build up rapidly when generally infected top varieties are propagated; it increases much less rapidly when top varieties react with local lesions only or are resistant. The build-up of streak in the Van Fleet collection may have been speeded up by the many generally susceptible top varieties such as hybrid wichuraianas and hybrid multifloras in the collection. Perhaps the popularity of hybrid teas held the disease down in commercial nurseries until recently, but the current popularity of floribundas allowed streak to build up more rapidly.

If a nurseryman will acquaint himself with the symptoms of rose streak and discard all plants of either top varieties or understocks whenever these show streak, he should be able to control the disease, if not to eliminate it. He should make a close inspection in late summer and fall when leaves and canes are mature and when ring and line patterns of streak are best developed. If streak is common in the nursery it may pay to replace the understocks with some from a streak-free source, as well as to seek a proved source of streak-free budwood. Streak was present in Texas 15 years ago, but nurserymen there have controlled it and possibly have eliminated it.

### Virus-free Understock

A virus-free understock, produced each year from seeds, or taken each year from an indexed mother block, would offer great advantages in virus control. Then any virus that was introduced in a top variety would remain confined to that variety; the mechanism for infecting additional top varieties would be lacking. But seedlings are unpopular because of variability, and mother blocks of multiflora have usually not found favor. The practice of propagating the understocks from cuttings taken from plants that have been budded is economically sound and is bound to persist. Nurserymen following this practice should recognize that it offers advantages also to his enemies, the viruses.

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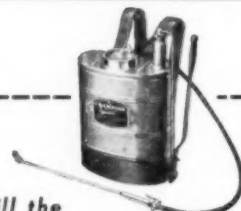
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[Continued from page 13]

mother plant. Because of its moss and plastic wrapping the soil in the pot remains moist throughout the four weeks required for safe callusing, in spite of its exposure to the sun and all the winds of heaven.

The stock plant with the growing scion attached to it is then transferred to the coldframe, the moss and the plastic wrapping being removed, and the pot sunk into the ground to the rim. A few days later the tip of the stock plant is cut off immediately above the place of union with the scion.

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For the sake of completeness it may be mentioned further that the stock plants should be potted during September or October of the preceding year. They are best wintered over in the coldframe, well mulched and—where winters are severe—later covered with sashes and straw mats, in order to give them the best possible opportunity of forming new roots and of becoming well established in their pots.

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1. The names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, American Nurseryman Publishing Co., 343 S. Dearborn St., Chicago 4, Ill.; Editor, F. H. Kilner, 343 S. Dearborn St.; Managing Editor, Kenneth A. Brent, 343 S. Dearborn St.; Business Manager, F. H. Kilner, 343 S. Dearborn St.

2. The owner is: American Nurseryman Publishing Co., Chicago; the names and addresses of stockholders owning or holding one per cent or more of total amount of stock are: F. H. Kilner, 343 S. Dearborn St., Chicago 4, Ill.; Kilner Family Trust, Kenilworth, Ill.

3. The known bondholders, mortgagees, and other security holders owning or holding one per cent or more of total amount of bonds, mortgages, or other securities are: None.

4. Paragraphs 2 and 3 include, in cases where stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting; also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner.

(Signed) F. H. Kilner, Business Manager.

Sworn to and subscribed before me this 25th day of September, 1953. Nellie E. Ryan, Notary Public.

(My commission expires July 24, 1956.)

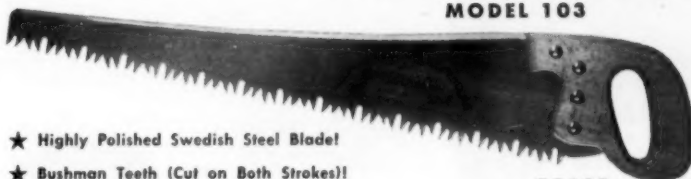


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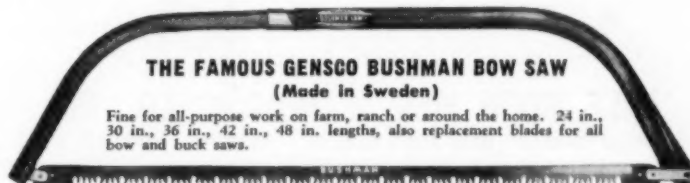
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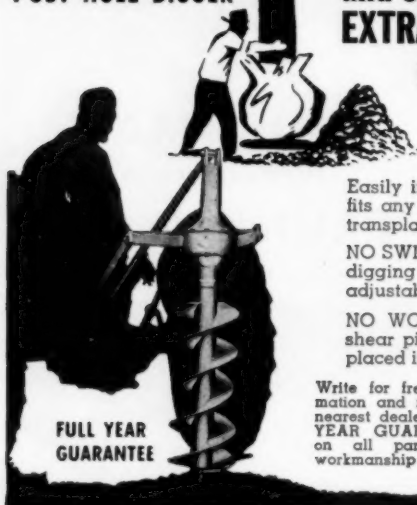
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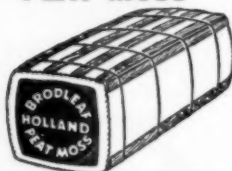
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## CHARLIE CHESTNUT

[Continued from page 12]

back and stayed on the porch for two  
days. That dog aint no good, he  
eats eggs," the boy says.

The real-estate agent come over to  
the truck where me and Will was.  
"I might decide to let you leave  
the stuff," he says. "Instead of mak-  
ing a suit for damages," he says, "I  
might just let yet leave it and call it  
square. 'You wait here,'" he says as he  
went back to the house to talk with  
his customer.

"Come on Will," I says, "get the  
shovels, we cant fool around here,  
we got to fix up Mr. Applequist.  
We'll take the stuff right out now  
and let him sue Emil or whatever  
he wants to do about it."

The real-estate agent and the lady  
were in the midst of making a deal.  
They had a contract spread out on  
the porch step when Will and me  
started to dig the first tree.

The lady laid down her fountain  
pen. "Well," she says, "if the trees  
dont go in the deal, I dont want the  
house."

"Well lady," I says, "they can  
stay if you want them, but we got  
to have our money or we take the  
trees out. Its a \$200 job, but if you  
folks can get together you can have  
the job for \$150." I walked back to  
the truck and waited.

## Over a Barrel

It wasnt long till the real-estate  
agent come over. "You got me over  
a barrel," he says. "Heres your \$150  
but if I didnt have a sale, I would  
sue you for damages," he says.

"Seems to me I ought to get a  
cut for making a sale," I says.

"You're just lucky not to be in  
court," he says, as I handed him a  
receipt for the money, marked paid  
in full.

It took us until 7 o'clock to get the  
trees dug and planted for Mr. Apple-  
quist, but this time Emil went along  
so we got the right house.

"What about the liver-spotted  
dog?" Applequist says to Emil as  
we were finishing up the job. "Sure  
would like to have that dog."

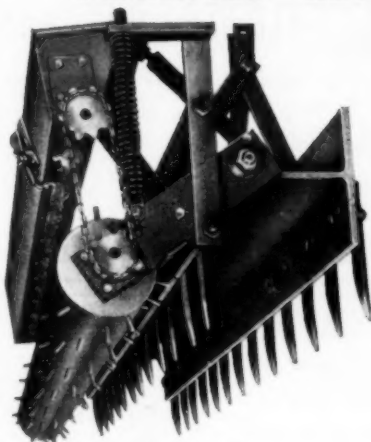
"On account of the inconvenience  
we have caused you," Emil says,  
"I decided to let you have the dog,  
otherwise I wouldnt never part with  
him."

We collected our money and start-  
ed for home. Emil felt so good on  
how everything turned out that he  
stopped and bought cigars for me  
and Will, 10 cent ones, too, and  
that extravagance I never seen be-  
fore as long as I have known Emil.



# THE GILL SOIL PULVERIZER

## SCARIFIES—LEVELS—PULVERIZES—SEEDS



**Model AS**

The Model AS Pulverizer, which is available with one seeder and one roller, is designed for the average landscape job. The two front rows of spikes scarify as the H-Beam flanges level, with the roller spiking and firming the soil. Distribution and coverage of seed is ideal, insuring better germination with much less seed.



**Model B-53**

The Model B-53 Pulverizer, which is available with two seeders and two rollers, is designed primarily for the larger jobs, such as golf courses, parks, estates, highway shoulders, etc. The two rollers give twice the rolling and pressing effect and the seeders double the distribution of seed. Reseeding lawns is simple with this machine, since the two rollers spike the turf, leaving a good seedbed.

Manufactured by **GILL MANUFACTURING CO.** (J. F. Gilreath, Mgr.)  
 2032 S. Tryon St., P. O. Box 3626 CHARLOTTE, N. C. Phone: 2-0718  
 For further information contact us or your local dealer. On your inquiry, please state the name of the major city nearest you.

### UNIT HEATERS

[Continued from page 10]

relation between requirements and performance, with a resulting saving in fuel costs. There is economy, too, in the initial cost of a unit heater installation. Because fewer valves, traps and connections are required than in the conventional systems, the initial cost is low. A unit heater weighing approximately 100 pounds has a heating capacity equivalent to that of more than a ton of cast-iron radiating surface or pipe coil.

A heating system comprised of unit heaters can be substituted for present heating with no disruption of operations. Because of the unit heaters' simplicity and compactness, it is easy to adapt them to present equipment and floor layout. Furthermore, floor and wall space which would ordinarily be taken up by other types of heating equipment is freed for more productive uses. Unit heaters can also be relocated to meet layout changes when new equipment is added or building expansion occurs.

**MALMO NURSERIES**, Seed Equipment & Garden Supply Store, Seattle, Wash., celebrated its golden anniversary in September.



AND MACHINE COMPANY

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## THE EVERGREEN GRAVE BLANKET KIT

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To the above time-saving methods has been added the **Grave Blanket Kit**.

You assemble a wire frame base and then secure your greens to the wire base by simply bending over the **Hillman Clip\***, (made of soft wire) by hand. A trial will convince you that your grave blanket-making time can be cut in half.

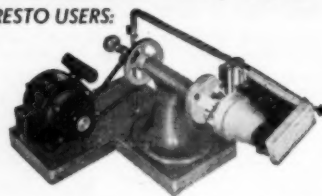
Prices and instructions upon request.

\*Patent Pending

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Fraser Nurseries, Inc., Birmingham, Ala.  
Glenrose Greenhouses, Spokane, Wash.  
Gren Nurseries, Miami, Fla.  
Hess Nurseries, Mountain View, N. J.  
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**PRESTO MANUFACTURING CO.** 366 Bassett Rd., Dept. A • DAY VILLAGE, O.

### TEXAS ROSE FESTIVAL

[Continued from page 8]

The parade route was lined with spectators and the 25,000-seat Rose stadium was filled with more persons to view the 2-mile-long rose parade at 10 a. m. Saturday. Secretary of the Interior Douglas McKay, on horseback, was parade marshal. Other distinguished guests were driven around the stadium in rose-bedecked convertibles to boxes to view the rest of the parade. The Kilgore Rangerettes, girl drill team, entertained. The parade contained 114 units including marching herds, drill units, old automobiles and floats of civic organizations and the queen and her ladies in waiting. Four duchesses rode with each lady in waiting. Floats took their theme and name from the coronation pageant.

First of the floats in the queen's section was that of the Tyler rose growers ridden by their duchess, Jeane House, daughter of Mr. and Mrs. Conard House, L. C. House & Sons Nurseries. Gowned in yellow, she rode a yellow float trimmed with red and pink roses, to represent "Golden Threads of Enchantment."

Last year's queen rode a float trimmed in dark pink roses, golden butterflies and gilded bird cages.

Masked clown dummies on springs, balloons, sugar canes, yellow chrysanthemums and pale yellow roses were used on the "Gaiety" float.

The "Romance" float was trimmed with creamy roses in silver urns, red bougainvillea and satin and lace hearts.

An azure-blue peacock on a float trimmed in pink roses and wistaria had the name "Charm."

"Fortune" was symbolized by a rainbow leading to a chest of gold and a huge diamond in a field of goldenrod, lilies and amber roses.

Silvery notes of music on a lavender background featured the float

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*The World's Finest*

Improved performance with

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**NOW 99 1/4% SOLUBLE  
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25 lbs. .... 22c per lb.  
40 lbs. .... 20c per lb.  
800 lbs. .... 18c per lb.  
2000 lbs. .... 17c per lb.

**NOW 99 1/4% SOLUBLE  
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**CONTAINS CHELATED IRON  
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**Azalea Acid Liquid Fertilizer**  
25 lbs. .... 26c per lb.  
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"Music" that was further decorated with silver lyres, white roses and crape myrtle.

A green float topped by a pink dolphin in a pool of dark pink roses and pink swans portrayed "Delight."

"Dreams" was a fanciful constellation of silver stars, blue clouds, a crescent moon and shooting stars, with floral trim of dark red roses and blue plumbago.

A snow man with a Christmas wreath and shooting skyrockets represented the extremes of season in the float "Merriment."

The Mexican float was reminiscent of the floating gardens of Xochimilco. Red carnations and peonies covered a barge floating on a stream banked by palm trees. The duchesses sat under an arbor of climbing red roses.

"Gems of Paradise," portrayed in peach blossoms, Talisman roses and silver scrolls, paid tribute to the armed forces.

Last came the queen's float, all in white and silver, except for her red roses.

#### Other Festival Events

A football game between Tyler Junior College and Southern Methodist University's B team afforded afternoon entertainment. Or one could view the old-time automobiles, including a 1903 Cadillac, that were in the parade by courtesy of the Dallas Horseless Carriage Club. Their drivers and passengers wore costumes of the period of their automobiles.

Saturday evening was fiesta night when commercial rose growers were honored by a gala variety show in the stadium. All growers who contributed tubs of cut roses and decorations to the festival show were given choice box seats.

Later Saturday evening the rose growers' ball, an informal dance open to the public, attracted a large crowd.

The festival events came to a close on a quieter note Sunday, with special morning church services and an afternoon interdenominational rose vesper service.

Tyler retail merchants, besides contributing financially to the festival, decorated their store windows with roses and with gowns of former rose queens. The leading department store decorated its interior also with 12,000 roses. A revolving 7½-foot-high fountain at the center of the first floor was entirely of roses, requiring 24,000 rose blooms. Displays were freshened daily with new roses, so that over 150,000 blooms were used.



**ROTO-HOE**  
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**2 h. p.**  
(as shown) only

**\$134.**

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Complete Interchangeability

*America's Most Usable Garden Tool*

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ROTO-HOE offers big savings in time, work and expensive equipment. There's no straddling, no breaking or injuring tops of trees, shrubs or plants. Its narrow width permits working right between the rows: over-all width 16 ins.; tilling width 12 ins. It's easy to control depth of cultivation, too. Easy maneuverability permits cross-cultivation even when plants are not equally spaced. Many nurserymen report excellent results using ROTO-HOE on greenhouse benches. (New center disc available for use on wood benches.)

ROTO-HOE'S 15 specially hardened teeth rotate at high speed, thoroughly mixing soil up to 6 inches deep. The dependable 2 h.p. Lauson gasoline motor has plenty of power for the work, and a variety of low-cost attachments greatly extend the usefulness of this equipment all year round.

Our new 12-inch rotary cutter attachment is unsurpassed for mulching weeds in nursery rows—mulches any size, will even cut off cornstalks close to ground. This attachment costs only \$24.00 additional — attaches to ROTO-HOE in a few minutes.

New ROTO-ZEPHYR SPRAYER is a high-pressure piston type, with jet agitation in 5-gallon tank; complete with gun and hose. Costs only \$77.00 to add to ROTO-HOE.



### IT WILL PAY YOU TO INVESTIGATE

If you are not already familiar with what ROTO-HOE can do to help you get more work done easier and at less cost, you will want to write or phone us for details at once.

ROTO-HOE is nationally advertised and distributed. Some attractive dealer franchises still open. Write.

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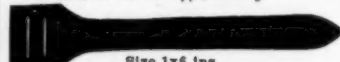


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1000-4000	...\$1.20	20,000	...\$0.90
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### THE JIFFY BALLING CO.

Sales and Demonstration  
of the One and Only

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Phone 98 LONG LAKE, MINN.

### BUILDING GARDEN WALKS

[Continued from page 15]

One of the important purposes of a walk is to direct or influence the circulation. This has a special importance in an area including a number of buildings and gardens. When another walk joins the primary artery on which you or your friends are walking, you or they may be influenced into taking this side path by having it touch the main walk at an inviting angle. This is shown in illustration B. You will notice that there is a direct influence created. The tendency is for you to turn right and see what lies in store for you.

When a garden area joins another and the walk of one leads directly into the axis of the other, it is often advisable to use two different materials in order to make a definite separation. If, for example, a garden of hedges opens into a second garden, a definite separation may be effected between the two by using a brick walk in one and a flagstone walk in the other. This is desirable when two gardens are not separated by a planting that possesses sufficient height.

There are other elements also involved. Illustration C shows the meeting point of two walks. The brick walk is the outer path of the hedge garden and is patterned so that runner bricks carry you beyond the flagstone. In other words, by laying bricks in this manner you may be influenced to stay on the brick walk and in the garden of hedges. The manner or pattern in which bricks are laid has a direct influence on the circulation as well as the garden design.

### Material Should Have Variety

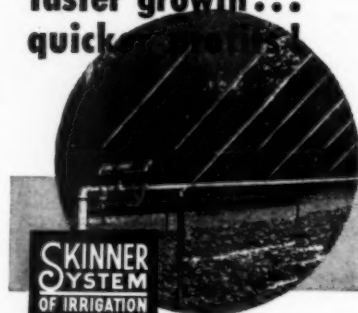
Speaking of patterns, illustration D indicates that flagstones are more interesting when the pieces are not all the same size. The effect of overlapping also aids in eliminating the sameness or monotony of a uniformly laid walk. Flagstones all of one size, when laid close together, give a flat and uninteresting result. It looks as though you might almost as well have poured concrete.

The direction of a path is accentuated when it is paralleled by a hedge, ground cover, turf strip or any combination of them. Eliminating lines that conform to those of the walk makes the point of direction less definite and the feeling more restful. However, it depends on the purpose of the walk.

Garden seats, when painted a color corresponding to that of the walk,

### AMERICAN NURSERYMAN

**faster growth...  
quick**



**SKINNER  
SYSTEM  
OF IRRIGATION**

**overhead irrigation**

—gives you uniform distribution and the most efficient use of water on growing plant areas at lowest possible cost. With Skinner your plants can have "RAIN" at the mere turn of a valve. A nozzle for every type of application.

**free** Write today for complete catalog on Overhead Irrigation, shows many profitable usages and gives layout plans.

**The SKINNER Irrigation Co.**

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### HOW TO PRUNE

**The Pruning Book.** by Gustav L. Wittrock. Gives practical information. Root pruning, top pruning, hedge pruning and pruning in relation to flower-bearing habits of plants, with chapters on plants as well as fruit-bearing trees and evergreens. illus., 172 p. (1948).....\$3.00

**Pruning Is Simple.** by John and Carol Grant. Basic principles are given for intelligent pruning of ornamental trees and shrubs. Roses, rhododendrons, azaleas, camellias, forsythias and evergreens are included. 60 p. (1949).....\$2.50

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Take your choice! Regardless of variety, you can be sure of the season's finest—that your trees will come from an area best suited for their growth and development—that your trees will be expertly inspected and selected—that your trees will be carefully cut at the proper time. Why take chances? Be sure of good profit-earning Christmas trees by ordering now from the Christmas tree specialists—J. Hofert Co.



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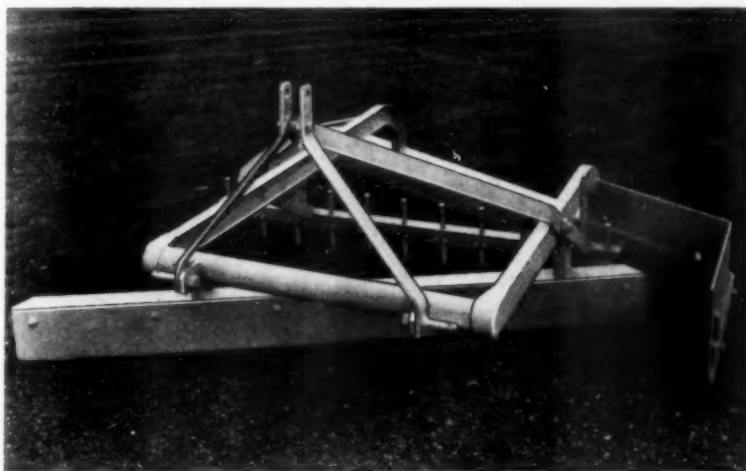


seem more a part of the area and less bold. A seat or any feature should not be so positive that the plantings take a back seat. Even fences, when painted or stained to match the path, may make a more attractive background and one less formidable.

The size of an area also has a bearing on the selection of the material to be used in the walk. If the area is small and narrow, coarse flagstone may be out of scale and old brick a lot more in keeping. The scale of an area is an important consideration and doubly so if you are working in a limited space, but always remember that the walk has to be adequate in order to be functional.

Let us not overlook the width of the walk, particularly if it is where many persons use it. Too often the walk becomes inadequate, and the worn turf on either side indicates that the walk is already obsolete. People are gregarious; so give them room to walk in groups or to stray from the "straight and narrow."

Trails, paths, walks—call them what you will—are worth a second thought before you decide what material to use and if that extra curve is necessary. Let your imagination run a little the next time a walk is involved in your landscape plans—but not too far.



## **DON'T USE THIS LAND LEVELER**

**... unless you're ready to fall in love!**

Many a nurseryman and lawn builder can testify that their Gledhill Land Levelers are indispensable for speedy, economical leveling jobs. Sturdy, reasonably priced, easily pulled by a tractor with 3-point Ford or Ferguson-type lift, this tool will either cause you to fall in love with it or your money will be cheerfully refunded.

Write for details and prices.

(Scarifier is not standard equipment but is useful accessory.)

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## Cut Growing Time WITH G-E HEATING CABLE SETS

These two celery plants are both 26 days old. They were grown from the same seed in immediately adjacent flatbeds. The plant on the left is typical of those grown in the manure-heated bed. The bed that produced the bigger, faster-growing plants was heated with G-E heating cable sets.

G-E Heating Cable Sets make the difference



• You can speed seed germination, help start root cuttings, and cut growing time by using General Electric heating cable sets. They supply beneficial bottom heat for hotbeds, cold frames, and greenhouses to force more seeds to germinate and produce more uniform, as well as faster-growing, plants.

G-E lead-covered heating cable is simply laid 4 to 6 inches below the soil surface, and plugged into a 110 or 220 volt outlet. A thermostat can be used to make the operation auto-

matic. To get better plants sooner, ask your hardware or farm equipment dealer for G-E heating cable sets, or write Section D106-101, Construction Materials Division, General Electric Company, Bridgeport 2, Connecticut.

You can put your confidence in—

**GENERAL ELECTRIC**



### FORBES GARDEN CENTER

[Continued from page 11]

low planting and cultural instructions are included for the edification of new gardeners. Added to these sales stimulants are the colorful store displays at the Forbes Garden Center, comprised of 3-tiered rows of bright, true-to-life pictures on 7x11-inch glass frames behind alphabetically arranged trays of bulbs in an abundance of species and varieties.

The Forbes concern dates back to 1898, when it was established by Alexander Forbes, Sr., at Newark. After his death in 1928, he was succeeded by his son, the present owner of the business, Alexander Forbes, who had his start in the industry in 1913.

About 30 persons are employed by the company, many of whom are salesmen who are on the road in the spring doing retail selling and at the two stores the remainder of the year. The sales force covers the entire northeastern area of the country and obtains quantity orders from commercial vegetable growers. Most of the personnel has been with the company 25 to 40 years, and practically all of the employees are authorities on gardening.

The staff is not large considering the size of Forbes' operations, and semi-self-service permits judicious saving of salesmen's time. The retail area of the garden center measures 30x100 feet, and—as with the bulbs—perennials and other plants are placed in accessible displays separated by spacious aisles. Over 400 varieties of perennial plants, which are grown at the Hanover grounds, are offered in 5 and 6-inch pots. Vines, 75 varieties of roses and even potted peony plants are other items sold by the firm in pots.

Potting plants in quantity in off-season periods enables the nursery to save time in handling. In the fall, the sales beds are filled with 5 and 6-inch

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Prompt Shipments  
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SQUARES  
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10 kegs .....	130.00

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SCOTTVILLE 12140 HARRY NINES BLVD.  
TEXAS • DALLAS, TEXAS

Your Profits Grow in Verhalen Plants

### SOIL ANALYSIS

Is Your Best Planting Guide

EDWIN HARRINGTON

Agricultural Chemist

Carversville, Pa.

Reliable, Complete, Prompt Service

Write for full information



### ULLMAN CLEAT

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.  
Northampton, Mass.

## The Original SWISS ROTARY TILLERS



REPAIR PARTS AVAILABLE FOR ALL OLD MODELS

Best for 35 Years

Mfd. by SIMAR since 1918

Write for details of new models.

E. C. GEIGER CO.

P. O. Box 270

NORTH WALES, PENNSYLVANIA

U. S. A. Distributor

### COLOR SLIDES

Sparkling 2x2-in. transparencies of landscape plants and plantings to help you sell. Free list. Sample 50c.

P. O. Box 15-A, E. Patchogue, Long Island, N. Y.

Oak Park NURSERIES



potted plants, covered with salt hay and kept covered all winter. In the spring, the hay is removed and the potted plants are ready for immediate delivery.

"This plan of storage enables us to fill orders of 10 customers in the time it would otherwise require to service one, resulting in a great saving of time and manpower," Alexander Forbes points out. "The boxes of pots are handled like trays and loaded on wheelbarrows. In the sales season they are arranged in alphabetical order in the back of the building, and plants can be delivered immediately instead of having to be dug up. Furthermore, the customer doesn't have to plant his purchase right away, but can let it remain in the pot if he desires."

Seeds account for a major portion of the firm's business and are alphabetically arranged in deeply tiered displays. In the spring, when the greatest variety of seeds is available, the tremendous seed-display resembles a dazzling, gardenlike assemblage.

Fertilizers, insecticides and gardening equipment complete the garden center's well-rounded stock.

#### Free Delivery

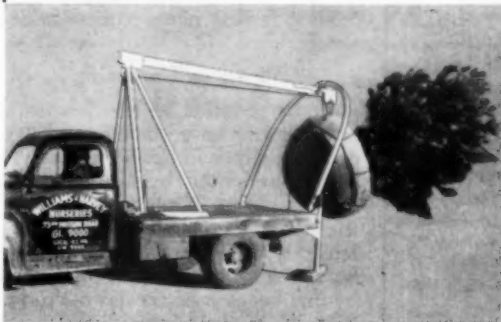
Patronage has been developed from a wide suburban area, stimulated in part by the firm's extensive, prompt, free delivery service. The delivery service is well publicized so that residents in the delivery area will be aware of the service and take advantage of it. Montclair, Dover, Newark, Elizabeth, East Orange and Plainfield are among the cities and towns which receive the free delivery service.

The telephone is thus an important sales medium at Forbes, as numerous orders are received by phone during the day. Also, telephone solicitation is carried on vigorously to obtain orders from large industrial accounts requiring seeds and other items for their landscaping. Purchasing agents are contacted regularly by one of the clerks, who makes his calls from an office equipped with bulletin boards which have the latest price listings.

#### Two Catalogs a Year

Two catalogs a year are additional means of creating business. Issued in the spring and fall, the catalogs contain condensed, informative descriptions of seasonal as well as year-round items. The bulb catalog, which is mailed in September, also emphasizes grass seed and fertilizer, as the firm makes about one-third of its year's sales of grass seed in the fall;

## NEW TREE MOVER



**Williams &  
Harvey Nurseries  
ANNOUNCE  
This New,  
Improved  
Big Tree  
Mover**

- New Lighter Weight
- Simpler to Operate
- Two Sizes, 6 Ft. and 7 Ft.
- Quickly Demountable
- New Lower Costs

This perfected new tree mover fits any standard truck. Ready now.

For specifications write at once.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, **\$1,375.00** F. O. B. Kansas City, Mo.



**WILLIAMS & HARVEY NURSERIES**  
P. O. Box 8822 Kansas City, Mo.

#### JUST RECEIVED ANOTHER LOT

## BALER TWINE

TWO 20-LB. BALLS PER BALE — 260-LB. STRENGTH — 210 FT. PER LB.  
Sample Mailed on Request

**IDEAL FOR TYING SHRUBBERY, TREES, ETC.**

**WHILE IT LASTS — 19c** per lb. in lots of 50 bales or more,  
or 20c per lb. in smaller lots.

**MORRIS BROKERAGE & SALVAGE CO.**

1635-1641 W. FULTON ST.

CHICAGO 12, ILL.

## EARN HIGHER PAY

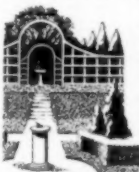
### • BECOME A LANDSCAPE GRADUATE

Men and Women! Study at home in your spare time. In 8 to 12 months YOU can be a successful landscaper! Healthful, pleasant, satisfying work in an uncrowded profession.

American Landscape School offers specialized training in Landscape Design, Horticulture, Construction and Superintendence, Drafting, Salesmanship and Office Practice, Mapping and Field Work, Garden Design, 45 generously illustrated lessons. Prepared by Francis A. Robinson, president of American Landscape School, Mr. Robinson, in active professional landscape practice for 42 years, is noted for successful landscape achievements—the World's Fair, in Philadelphia, site plans for colleges, universities, many state fairs, and expositions, parks, cemeteries, coast to coast. Free lifetime consultation service, 38th year.

Successful graduates throughout the world. Mail coupon today for FREE illustrated catalog.

J. L. Moreau, Jr., of N. J., says: "The time and money I spent on the course has paid for itself many times over. It advanced the organization of my own business by several years."



AMERICAN LANDSCAPE SCHOOL  
6678 Grand Ave., Des Moines 12, Ia.

Please tell me how I can increase my income as a landscaper.

Name.....

Street.....

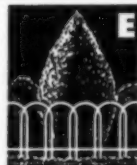
City.....State.....

#### PERFECTION MARKERS ARE BETTER



for Park Trees, Display Gardens, Field use or Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalog and prices of the complete PERFECTION LINE.

The S-W Supply Co., 8, 33, Girard, Kas



#### E-Z-GARDS

PROTECT YOUR EVERGREENS, SHRUBBERY, FLOWERS AND LAWN

Ornamental design adds to beauty of yard or garden. Self-Supporting—No Stakes or Posts!

Easy to set up and just as easy to remove.

WRITE FOR LITERATURE AND DEALER PRICE LIST

BROADWAY MACHINE & MANUFACTURING CO. SHELBYVILLE, INDIANA

# ACTIONS SPEAK LOUDER

## Insist on the GENUINE REDHEAD CAN SHEAR

### It cuts ALL cans



- CLEANLY
- SWIFTLY
- SAFELY!!
- It's ALL-steel, zinc-plated.
- Its blade is heat-treated Carbon Spring.
- Its face plate is reversible, hardened.
- Has adjustable tension.

Nursery Prices:  
1 or 2—Each \$6.75  
3 for \$17.50—6 for \$30.36  
12 for \$54.00

F.O.B. Berkeley, Calif.  
Pkg. wt. ea. unit 4 1/2 lbs.  
The Redhead has been imitated!

Look for this  
"Handy-Mau" label &®  
It guarantees  
the REDHEAD only!  
(We don't repair the imitations.)



Be sure of getting the Genuine  
— Buy Ayer-Line from our  
authorized jobbers. For names,  
see American Nurseryman,  
September 15, 1953, or write:

**Ayer-Line INDUSTRIES, INC.**  
709 Jones St. BERKELEY 10, CALIF.

two thirds of the sales are made in the spring.

The Forbes catalogs have been issued regularly for the past 10 years and are sent to a list of regular customers, with new names added yearly.

## Writes on Gardening

The reputation of Mr. Forbes as an authority on gardening and gardening equipment has been strengthened considerably by his articles on various phases of plant culture and the use of tools. He has written extensively for the garden pages of nearby local newspapers under his by-line on care of the lawn, storing of bulbs in the winter, little-known characteristics of perennials and similar subjects.

Some of these articles have been reprinted and are enclosed with packages or placed on the store's counters to be picked up by visitors.

The only outside promotion conducted, beside the catalog mailings, is display advertising in 20 weekly and semiweekly newspapers. Insertions are made from March through May and from September through November. These ads play up seasonal items, and never carry prices or offer bargains.

Forbes has also found gift certificates helpful in building volume. They are issued in any amount and cover all seed and bulb offerings. They are especially popular during the Christmas and Easter seasons.

The dispensing of information is one of the primary services of the firm, whose reputation for solving perplexing problems has grown as a result.

"We believe in freely giving all our customers the benefit of our long experience, regardless of the amount of their order," Mr. Forbes explains. The dollar buyer rates as much consideration as larger purchasers."

In their explanations, the store's staff is not satisfied merely to give a superficial answer. They determine soil conditions, suggest proper use of tools and even identify plant specimens and shrubs brought to the store.

For customers who wish to do some study on their own, the garden "book nook" at the garden center contains a varied line of the latest books and other literature. Reading material is placed on tables surrounded by comfortable chairs, functional furniture and other conveniences for customers, making this an inviting department, and adding one more reason for the success of Forbes Garden Center.

**WINTER OR SUMMER  
DO EVERY OUTDOOR JOB  
FASTER—EASIER—BETTER**

WITH A **GEORGE** GARDEN TRACTOR

**\$119.50**  
F.O.B. Sullivan, Ill.

## SEND TODAY

Write for free copy of illustrated George garden tool folder. See how a George garden tractor can do every outdoor chore.

George  
Garden Tool Div.  
Box AN-10  
Sullivan, Illinois

Illustrated:  
2 wheel, 2 HP GEORGE Garden Tractor, Briggs or Clinton Engine

Your George garden tractor is a multi-purpose, year-round work saver. In price, it compares with a power mower. In use, the George garden tractor is incomparable. Complete range of attachments for tilling gardens... mowing lawns... cutting weeds... removing snow. A George tractor is ideal for every purse and purpose.

## GEORGE GARDEN TOOL

Div. of Community Industries Ass'n

Has Been Called the Greatest Little Trash Mower ever Invented!

**DeLuxe MODEL**

QUICK INTERCHANGEABLE TEETH

PUT ON IN PAIRS

**FULLER** LAWN BROOM

SEVERAL STYLES AND SIZES

The Ideal Tool... for cleaning lawns, rock gardens, animal enclosures, among shrubbery, etc.

... many users say they just ...

CAN'T BE BEAT FOR SWEEPING LEAVES

The long, flexible coil spring teeth follow every bump in the ground, getting all the debris as so many human fingers. Sweep with a Flip with the wind. The coil spring teeth tend to throw the accumulated load along. Does not clog with trash as ordinary rakes do.

## — NURSERYMEN —

You need them in your work: Your lawn and garden customers need them too.

Potential users: Nurserymen, gardeners, landscape gardeners, farmers, golf courses, country clubs, recreation grounds, parks, cemeteries, zoos, homes, etc.

— Write for particulars —

**FULLER MFG. CO.**  
Dept. 7N, Newhall, Ia.

## BALED SHINGLE TOW

(CEDAR SHAVINGS)

**WM. A. JOHNSTON**

1722 N. W. 15th St. PORTLAND 9, ORE.

## SUCKING INSECTS???

Don't feed them — use

## C. P. O. SOAP SPREADER

Used extensively for twenty years to control scale insects, red spiders, lace bugs, aphids on ornamental nursery stock. Safe for summer use.

55-gal. drum...\$77.00 30-gal. drum...\$45.00  
5-gal. drum...\$8.50

All prices F.O.B. Philadelphia, Pa.

**CRYSTAL SOAP & CHEM. CO., Inc.**  
6390 State Road, Philadelphia 35, Pa., Dept. AN.

## NEW BURLAP SQUARES

DUTCH — DOMESTIC

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## MENNEPOTS WOOD LABELS

**AMERICAN-DUTCH BURLAP CO.**

P. O. Box 177 CRANSTON 10, R.I.

IF YOU'RE NOT USING  
**SUPERTHRIVE 50-IN-1\***  
YOU'RE LOSING TOO MANY PLANTS!

Clip this ad for sample.

**VITAMIN INSTITUTE**  
5409-15 Satsuma Ave., North Hollywood, Calif.  
\*Trade-mark